

Figure 1

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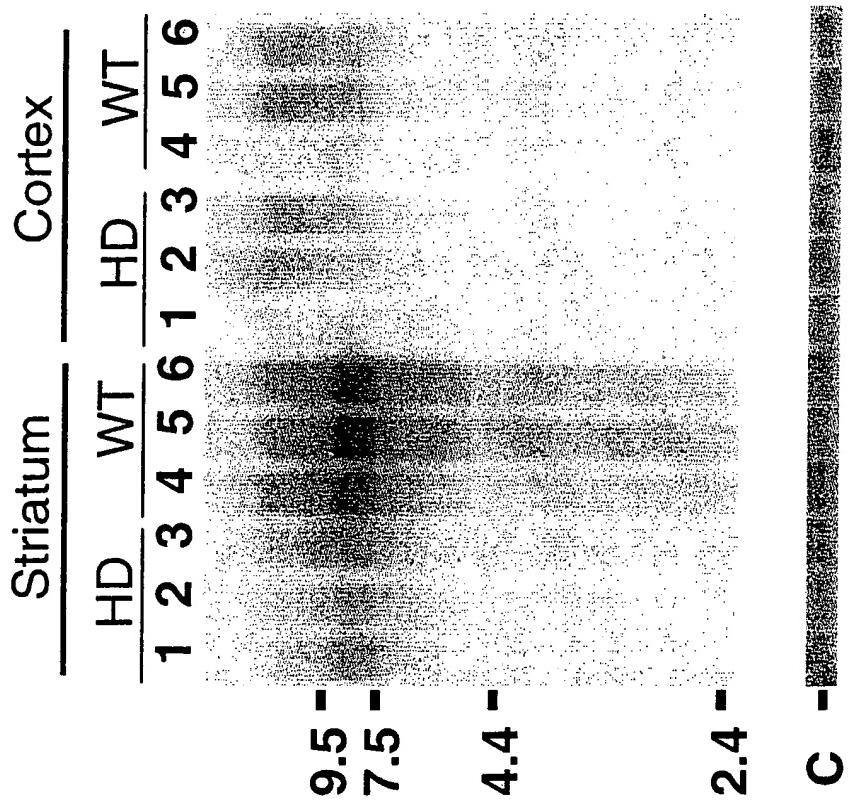


Figure 2

**Figure 3**

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H01

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61 AACTGTACAAA AACCCAGTGC AGCTGATGAT GCAAAGCAGT CTCTCTCTGT GTACAGTGCC  
TGACATGTTT TTGGGTCACTG TCGACTACTA CGTTTCGTCA GAGAGAGACA CATGTCACGG

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121 CCACCTATT AAAAATCAGC TACAASCCA GAACACTGTG AAACACTTAA CATAAGAAC  
GGTGGATAAA TTTTAGTGC ATGTTSGGGT CTTGTGACAC TTTGTGAATT GTATTCTTG  
H02

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181 AAACGCAGCG TCTGGATTCT TTCCAAGGAG AGCAGCTTTC TCCACAGGAA CACAGTAACA  
TTTGCCTCGC AGACCTAAGA AAGGTTCCCTC TCGTCGAAAG AGGTGTCCTT GTGTCATTGT

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241 AAAGAGGTCC GCCGCCATCC ACACCCAGCC AAGACACCTC AGAGGCCATA GGGACAAACCT  
TTTCTCCAGG CGGCGGTAGG TGTTGGTCGG TTCTGTGGAG TCTCCGGTAT CCTCAGTTGGA

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301 CCTTGCTGGC CAACACCTGC TGAGCAGGG CACAGGTCCC AGCAACTGAT CCTCAGTTGGA  
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361 TGGGTCCGCA GTCAAAGCCT TAATGGGCTC TCTTTGAAG GGGAAAGAAA KWTTTCAAGC  
ACCCAGGCCT CAGTTCCGGA ATTACCCGAG AGAAAACCTC CCCCTTCTTT MWAAAGTTG

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421 TTATGATATC CAACATTATT ATAGTTGATG AGTTAGTAAA TTCCGAAAAA AAAA  
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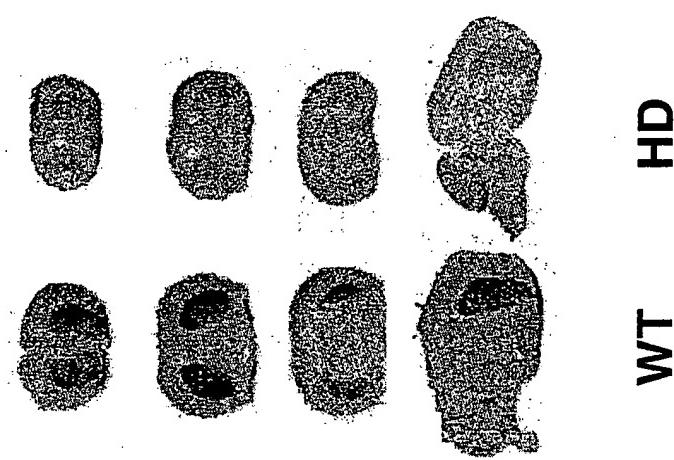


Figure 4

Figure 5

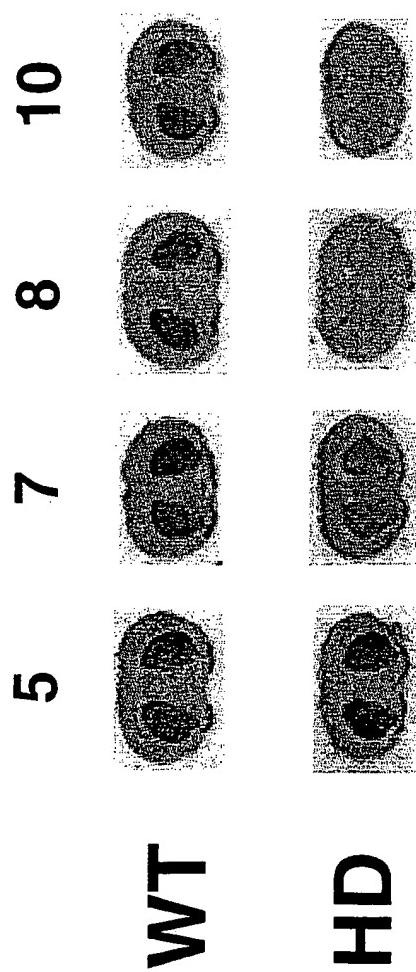
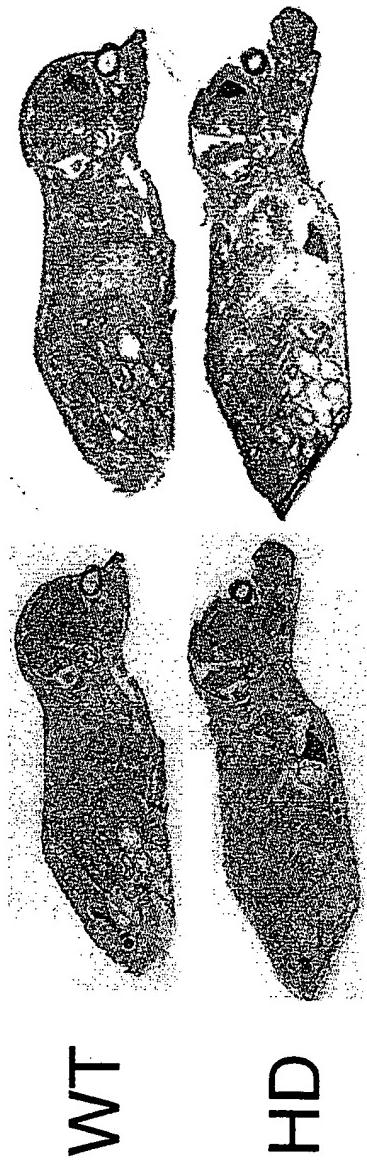


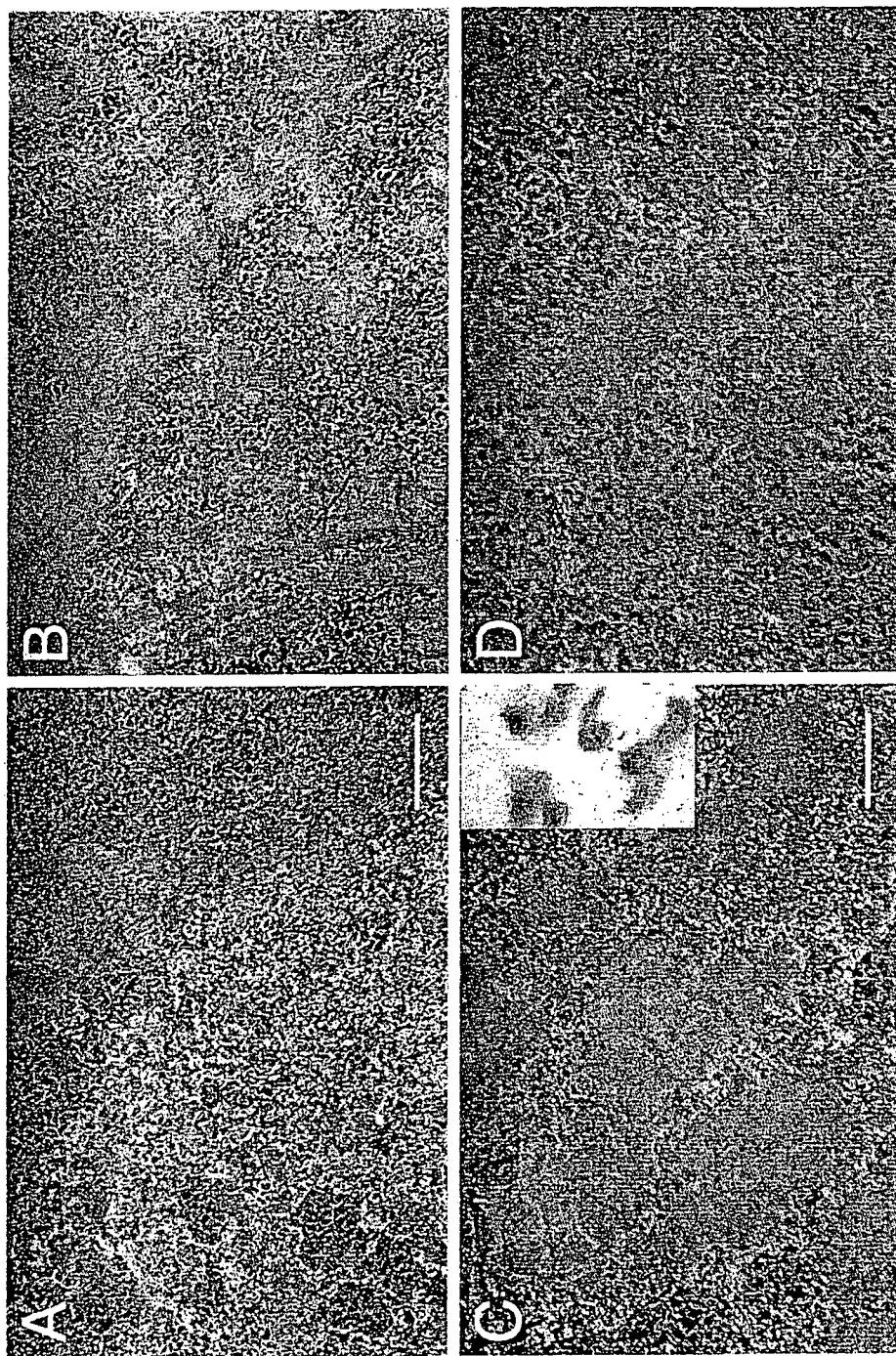
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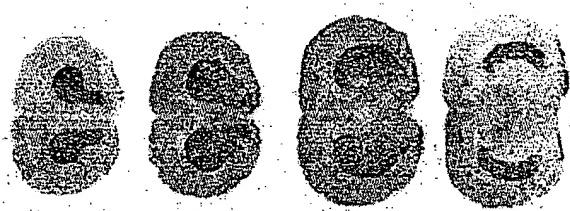
WT

HD

Figure 7



**Figure 8**



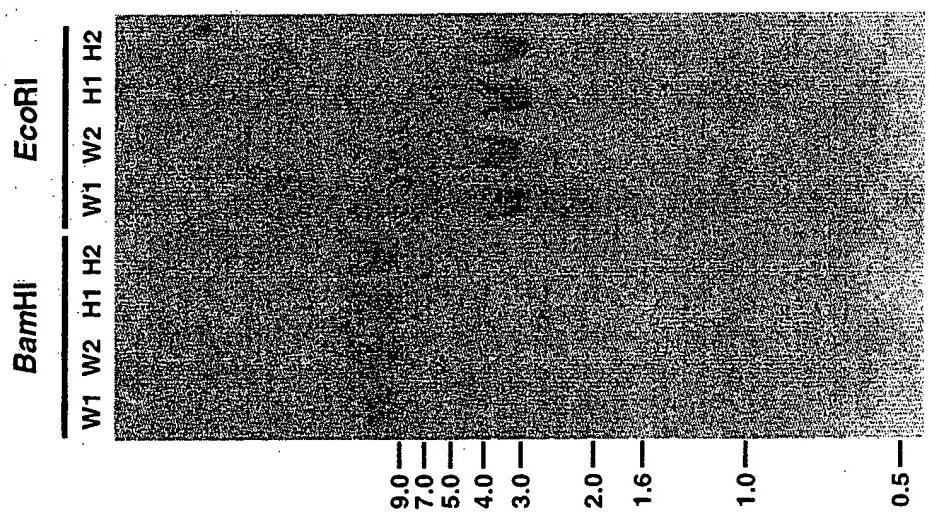


Figure 9

**Figure 10**

1	CACTGAAGCT GGTCCACGTC TATAAACAGG TGACACTGGC TGCAGCAAAA AGCCATTCGA GTGACTTCGA CCAGGTGCAG ATATTTGTCC ACTGTGACCG ACGTCGTTT TCGGTAAGCT
61	TCCACACAAA TTGATCTTCT ATCATCTTGG AATCTGAATT GCAGGGAGGA GCAGTATGTA AGGTGTGTT AACTAGAAGA TAGTAGAACC TTAGACTAA CGTCCTCCCT CGTCATACAT
121	AGACGACCGT TTAATTCAAGG CATTCCGAAG GCATGAGCGC ATGGATTCTG TCACCAAGCG TCTGCTGGCA ATTAAGTCC GTAAGGCTTC CGTACTCGCG TACCTAAGAC AGTGGTTCGC
181	TATAAAAGGA CCCTGGCATT GGGAAACCTA TGACGGACTG TTTTGCTGT AGAAGTAGGG ATATTTCCCT GGGACCGTAA CCCTTGGAT ACTGCCTGAC AAAAACGACA TCTTCATCCC
241	ATTTTACAGA AGTCTCCTTG AATTGCCCC GCCTGGGCA GTTTGCAGA GGAACCTGCC TAAAATGTCT TCAGAGGAAC TTAAACGGGA CGGACCCGT CAAAACGTCT CCTTGGACGG
301	AGAGATTTAT TGGCTGGTCA GTCTCTGTG AAATAGTATC ATGTGAGAAA CAGTTGTAG TCTCTAAATA ACCGACCAGT CAGAGAACAC TTTATCATAG TACACTCTT GTCAAACATC
361	AAAAAAAACTA TACCTGGGAA GACCTTGCA ACATTGTTCC TTCCATGGGC CAAGACTCAG TTTTTTGAT ATGGACCCCTT CTGAAACGT TGTAAACAAGG AAGGTACCCG GTTCTGAGTC
421	TTAGGAGGCA TAAATCTGCC CGGAATAAAC TAGGCCAGGA TACAGCCATG TTTAGTTAT AATCCCTCCGT ATTTAGACGG GCCTTATTG ATCCGGTCT ATGTCGGTAC AAATCAATTA
481	AATTGGTTT TAGAATTACAC ACAGGCAGGA TTGGTTTTT TGTGTCTTGG CAAGTGGAGC TTAAACCAAA ATCTTAAGTG TGTCGTCCT AACCAAAAAA ACACAGAACC GTTCACCTCG
541	ATATTTAACAC TACAGGCATG GGAATCCTGC CTCTTAGCTT TTCCACCCCT CTTGTCTCAC TATAAATTGT ATGTCGTAC CCTTAGGACG GAGAATCGAA AAGGGTGGGA GAACAGAGTG
601	CAAGTTTTT CTCTCCAAAG GTTTCAGGA ATTCTCATT AATGGCTGAT GCAAACCTAG GTTCAAAAAA GAGAGGTTTC CAAAGGTCT TAAAGAGTAA TTACCGACTA CGTTGAATC
661	TGAATAATAA TGAATATAAA CAATGCTCAC CTCACCAAAA TTATATTATT TGCAGTCATT ACTTATTATT ACTTATATT GTTACGAGTG GAGTGGTTT AATATAATAA ACGTCAGTAA
721	TGTGATAACA CAAATTTAT CGCAATGGTT ATTATTTAAT TTGGGCCAC ACAGTGTGGT ACACTATTGT GTTAAATAA GCGTTACCAA TAATAAATTA AACACCGGTG TGTGACACCA
781	TATCTTTGT TGTGGTTGT TCTGAGAAAA TGTCTTGGA TATGTAAGTG CCAATACCAAG ATAGAAAACA ACACCAACAA AGACTCTTT ACAAGAACCT ATACATTCAC GGTTATGGTC
841	TGTGAAGTAT TGATCCCCGG CAGCAAAATA CAGCCTAAGG TTTGTAAACA TCAATTCTAT ACACTTCATA ACTAGGGCCC GTCGTTTAT GTCCGGATTCC AAACATTGT AGTTAAGATA
901	CTCAGTTCAT CAGAGGGCCT GAGAAGCTGC GGGGCAGTGT AAAGTAAAGT ATGCTGGGCT GAGTCAAGTA GTCTCCCGGA CTCTCGACG CCCCGTCACA TTTCATTTCA TACGACCCGA
961	GGTGGTGGTC AGCCTCCCGC CTGAAGAGTG ACCAGTGTG GCCCGACGGGA TCGCTGAGAT CCACCAACAG TCGGAGGGCG GACTTCTCAC TGGTCACCGAC CGGGCTGCCT AGCGACTCTA
1021	ATTCTCCCAT AATGGCAAAA AAATAGGCAG TTTGATGTGA CCTGTTAGT GTGGCTCTCC TAAGAGGGTA TTACCGTTT TTATCCGT AAAACTACACT GGACAAATCA CACCGAGAGG
1081	TCTTTGAGC ATGTGTTAGC ATTCTTATT TATACATC CAGTGAACTC TGCTCTTCCA AGAAAACCTCG TACACAATCG TAAAAATAAA ATATGAGTAG GTCACTTGAG ACGAGAAGGT
1141	AGTGTGTTCA TGTATGTGCT AGATATATTA GCACAGCTG CCTCTGCTG CACAACGCCT TCACACAAAGT ACATACACGA TCTATATAAT CGTGTGGAC GGAAGACGAC GTGTTGCGGA
1201	TAGAGACCCG GCCTTCAAT GAGCTTAGCT TGTGCTCTGT TTCTGCTCTC TTAGGTCTAA ATCTCTGGGC CGGAAAGTTA CTCGAATCGA ACACGAGACA AAGACGAGAG AATCCAGATT

**Figure 10 (cont.)**

1261	ACTATGGTGT CAGTTTAAT AGAACAAAAG TATGCATCTT GCCTTGGCTT GAGCCTTTTC TGATACCACA GTCAAAATTA TCTTGTTC ATACGTAGAA CGGAACCGAA CTCGGAAAAG
1321	GTTTCAATG CTGACTTCTC CCCTTCTCT CCTGTGCTCA CCTTACCTT CCAGAGTGTAC CAAAGTTAC GACTGAAGAG GGGAAAGAGA GGACACGAGT GGAATGGAAA GGTCTCACAT
1381	AGGGACAACT TTTAAGGAGG CGTGTCCCTG GTAGGGCAT CCCTGTTAC CAGGTGCCTG TCCCTGTTGA AAATTCTCC GCACAGGGAC CATCCCCGA GGGACAAGTG GTCCACGGAC
1441	TCATCACCCC ACTTGACTGA CATCTACCC GGTGACTATG GGTTCTCTT GTTTGTAGGG AGTAGTGGGG TGAACTGACT GTAGATGGGA CCACTGATA CCAAGGAGAA CAAACATCCC
1501	AACGGTGGCT CCAGGTGGAG GCATCAATCT GTTGGGTTCT GGTTCCCGGC TGCCCTTGGT TTGCCACCGA GGTCCACCTC CGTAGTTAGA CAACCCAAGA CCAAGGGCCG ACGGAAACCA
1561	TTGAAAGTC TCTTCTCTGT ATATTCTAC CCTGCATTG CTTGTGTGG TGCTGATGCT AAACTTCAG AGAAGAGACA TATAAGGATG GGACGTAAAC GAAACACACC ACGACTACGA
1621	GTGCGCAGTA GGATTCTTGG ATGACTCTCC ATCACTACA GACTCCCCCT GTTGCAAAGT CACCGCGTCA CCTAAGAAC TACTGAGAGG TAGTCAGTGT CTGAGGGGGAA CAACGTTCA
1681	GTCAGGCTGA CTCGACAGTC ACCGTAATCT CTGAGTCAGT CACACACAGG CTGTCAGCCA CAGTCCGACT GAGCTGTCAG TGGCATTAA GACTCAGTCA GTGTGTGTCC GACAGTCGGT
1741	CGGCTCCAC TTGCATGGCT ATTCTATTT CACACGTGAG TTTCTGTTGC TGGCTGGCTG GCCGAAGGTG AACGTACCGA TAAGATAAAA GTGTGCACTC AAAGACAACG ACCGACCGAC
1801	ACTGGCATTAA TCTATGCTAA GTTGAATCA GGAGTGCCA GCAGAGGCCA TCATTCTCAC TGACCGTAAT AGATACGATT CAACTTTAGT CCTCACGGGT CGTCTCGGGT AGTAAGAGTG
1861	TGTCTTGAA ACAAAAGCTGT ACGGTTTGT CGATGAACGT ATTAAAGCA TTTCATGCAA ACAGAAACTT TGTTCGACA TGCCAAACTA GCTACTGCA TAAATTCTGT AAAGTACGTT
1921	TGACAAAGTG CTCAGTAGTG GAAGGCAGGC TGTGACCAGT CTGCTGCTC CTTACTATAA ACTGTTTCAC GAGTCATCAC CTTCCGTCCG ACACTGGTCA GACGGACGAG GAATGATATT
1981	TTGTGAGGAT TTGTTACTGG AACAGTACAT GGAGGCCTGA CCTTGTGGGG GCACAGGGTG AACACTCCTA ACAATGACC TTGTATGTA CCTCCGGACT GGAACACCCC CGTGTCCAC
2041	GAACCTTAGC TGAATATAGT GTGTGCTCA AGAGGAAGTC AGGGTACTAG CTCAGTGCTC CTTGAATCG ACTTATATCA CACACAGAT TCTCCTTCAG TCCCAGTCA GAGTCACGAG
2101	AATCTCCAGG TACTATATAT ACATTGCCC GTTTTATCTC TAATGTGAAA TAAATCCCCA TTAGAGGTCC ATGATATATA TGAAACGGG CAAAATAGAG ATTACACTTT ATTTAGGGGT
2161	AACACTTGT TATCGTGTAG CGTACCTAAA AGACTATTCT ATTATGGGTG TCCCCACTTT TTGTGAACAA ATAGCACATC GCATGGATT TCTGATAAGA TAATACCCAC AGGGGTGAAA
2221	CTTGGTTGG TCACCCCGAT CCCCCGGTCT TCTGCTGTAT CTAGAACAGT GACTATAAAT GAACCAAACC AGTGGGGCTA GGGGGCCAGA AGACGACATA GATCTGTCA CTGATATTAA
2281	GATGTATGGG AATAGTGTAA CCATATGATC TGTTGTCTGG AGTATATGCT ACATGTTCAA CTACATACCC TTATCACAAA GGTATACTAG ACAACAGACC TCATATACGA TGTACAAGTT
2341	TTACTGTACA AAAACCCAGT GCAGCTGATG ATGCAAAGCA GTCTCTCT GTGTACAGTG AATGACATGT TTTGGGTCA CGTCGACTAC TACGTTCTGT CAGAGAGAGA CACATGTCA
2401	CCCCACCTAT TTAAAAATCA CGTACAASCC CAGAACACTG TGAAACACTT AACATAAGAA GGGGTGGATA AATTTTTAGT GCATGTTSGG GTCTGTGAC ACTTTGTGAA TTGTATTCTT
2461	CAAACGCAGC GTCTGGATTC TTTCCAAGGA GAGCAGCTT CTCCACAGGA ACACAGTAAC GTTTGCCTCG CAGACCTAAG AAAGGTTCT CTCGTCAGAA GAGGTGTCTT TGTGTCAATTG

**Figure 10 (cont.)**

2521	AAAAGAGGTC CGCCGCCATC CACACCCAGC CAAGACACCT CAGAGGCCAT AGGGACAACC TTTTCTCCAG GCGGCGGTAG GTGTGGGTCG GTTCTGTGGA GTCTCCGGTA TCCCTGTTGG
2581	TCCTTGCTGG CCAACACCTG CTGGAGCAGG GGCACAGGTC CCAGCAACTG ATCCTCAGTG AGGAACGACC GGTTGTGGAC GACCTCGTCC CCGTGTCCAG GGTCGTTGAC TAGGAGTCAC
2641	GATGGGTCCG CAGTCAAAGC CTTAATGGGC TCTCTTTGA AGGGGAAAGA AAGAATTCA CTACCCAGGC GTCAGTTCG GAATTACCCG AGAGAAAAGT TCCCCTTCT TTCTTAAAGT
2701	AGCTTATGAT ATCCAACATT ATTATAGTTG ATGAGTTAGT AAATTCCAAA AAAAAAAGAT TCGAATACTA TAGGTTGTA TAATATCAAC TACTCAATCA TTTAAGGTTT TTTTTTCTA
2761	GATTTTATAT GTATGACATA AAAAAAATCT TTGTAAAGTG CGCAAGTGCA ATAATTAAA CTAAAATATA CATACTGTAT TTTTTTAGA AACATTCAC GCGTTCACGT TATTAAATT
2821	GAGGTCTTAT CTTTGCATTT ATAATTATA AATATTGTAC ATGTGTGTAA TTTTCATGT CTCCAGAATA GAAACGTAAA TATTTAATAT TTATAACATG TACACACATT AAAAAAGTACA
2881	ATTCATTTGC AGTCTTGTAA TTTAAAAAAA CTTTACTGTT ATGTTTGTAT AATAGAACAT TAAGTAAACG TCAGAAACAT AAATTTTTT GAAATGACAA TACAAACATA TTATCTTGTAA
2941	TAATCATTAA TTATAACTCA GACAAGGTGT AAATAAATTC ATAATTCAAA CAGCCAGTAT ATTAGTAAAT AATATTGAGT CTGTTCCACA TTTATTTAAG TATTAAGTTT GTCGGTCATA
3001	ATATGCATAT ATGGGTGTTA CATTGCAAA ATCTCTATCT TTGTCTTATT CACATGCTTA TATACGTATA TACCCACAAT GTAACGTTTT TAGAGATAGA AACAGATAA GTGTACGAAT
3061	AAGAAGTAAG AAATCTTTG TGGATATGTA ATTATACATA TAAAGTATAT ATATATGTAT TTCTTCATTC TTTAGAAAAC ACCTATACAT TAATATGTAT ATTCATATA TATATACATA
3121	GATACATGAA ATATATTAG AAATGTTCAT AATTTTAATG GATATTCTTT GGTGTGAATA CTATGTACTT TATATAAATC TTTACAAGTA TTAAATTAC CTATAAGAAA CCACACTTAT
3181	ATTGAATACA ACATTTTAA AATGAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAA TAACTTATGT TGTAAGGAAATT TTACTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTT



Figure 11

3236 bp

**Figure 12**

1	AAGTGTAAAT AAAATAAACA TCTAATAAAA AAAATTACAT ACCATAGAGG AACAGATAA TTCACATTG TTTTATTGT AGATTATTT TTTTAATGTA TGTTATCTCC TTGTTCTATT
61	TTCTGCCCA ACTTCATACC CTCCAGCGTA TAGTGTGAG GTTGGCTG TTGCTGTGTA AAAGACGGGT TGAAGTATGG GAGGTCGCAT ATCACAACTC CAAACCAGAC AACGACACAT
121	TTGTAATGTA ATGTTAAATT CTCTACCTGA AGGTCTAGGC CTACAAGTGA ATTCTCATGT AACATTACAT TACAATTAA GAGATGGACT TCCAGATCCG GATGTTCACT TAAGAGTACA
181	TTATAGAGTT TTGTTGTGCA AACCTTGTTC CTTAATTAA AACTATGGTT AAAAAACAAA AATATCTCAA ACAACACGT TTGGAACAAG GAATTAAATT TTGATACCAA TTTTTGTTT
241	ACAAAATGG CTACAGCCAA TAACTGAAGG GGGTTACCTT GTTGAAGGGG TGGAAAAGAG TGTTTGACC GATGTCGTT ATTGACTTCC CCCAATGAA CAACCTCCCC ACCTTTCTC
301	AGAGGAGGAA GAAGGGAGTT CAAGAGAAGG AGAAGAACAA GAGGAGAGGA GGAAGCTGCC TCTCCTCCTT CTTCCCTCAA GTTCTCTTCC TCTTCTTGTGTT CTCCCTCCTT CCTTCGACGG
361	ACGAGGGAG ATGGGCCATG AGAACCTGGC CAGGAGAAAT AGCCAGTATC TGGAGTACAC TGCTCCCCCTC TACCCGGTAC TCTTGAACCG GTCCTCTTA TCAGGTCATAG ACCTCATGTG
421	CACTGAGGAG GTAGCCAGGC TAGCAGTTAG AAGAGTAGAT TAGGGTTAT TTTCCCCCA GTGACTCCTC CATCGGTCCG ATCGTCAATC TTCTCATCTA ATCCCCAATA AAAAGGGGGT
481	CTCCACATAG TTATCAAAGC CAAATAAAAT AACCATAGTC TGAGTCTCAT CTATTTGTA GAGGTGTATC AATAGTTCG GTTATTAA TTGAGTACAG ACTCAGAGTA GATAAACATT
541	GCTAGTTGGG TATAAGATTA ATTTGGCTGT ACTACAGTT AGATTCTAA CATAGGAAC CGATCAACCC ATATTCTAAT TAAACCGACA TGATGTCAAA TCTAAAGATT GTATCCTGAA
601	ATCAAAAAT TGCTCAAACA AGAACATGCT GACAATATT TAAATGATT ATTTATATTG TAGTTTTGA ACGAGTTGT TCTTGTACGA CTGTTATAAA ATTTACTAA TAAATATAAC
661	TTTGCACCTT CTAAAGTTTC TTCTAAATGT TCCATGGTCA AATTAAAAAA TATACATATT AAACGTGAAA GATTCAAAG AAGATTACA AGGTACCAAGT TTAATTTTT ATATGTATAA
721	GGCTATTAAA TTCGTCTAAG TGGGGCTGGA GAGATAGCTC AGAGGTTAAG AGCACTGACT CCGATAATT TAAAGCAGATTC ACCCCGACCT CTCTATCGAG TCTCCAATTC TCGTACTGAA
781	GCTCTCCAG AGGTCTGAG TTCAATTCCC AGCGACCACA TGGTGGCTCA CAGCCATCTG CGAGAAGGTC TCCAGGACTC AAGTTAAGGG TCGCTGGTGT ACCACCGAGT GTGGTAGAC
841	TAATAGATAG GATCTGACGC CCTCTTCTGG AGTGTCTGAA GACAGCTACA ATGTACTCAT ATTATCTATC CTAGACTGCG GGAGAAGACC TCACAGACTT CTGTCGATGT TACATGAGTA
901	ATATATTAAA TAAATAATAT TAGAAAATTC TTCTAAGTGT ATCATTATA GAATATTAA TATATAATT ATTATTATA ATCTTTAAG AAGATTACA TAGTAAATAT CTTATAAAATT
961	TATATAAAAGT AAATGCCTCA GGAAATATAA ACTTGGATT AAATCAAAGA ACTTCATGAG ATATATTCA TTTACGGAGT CCTTTATATT TGAACCTAA TTTAGTTCT TGAAGTACTC
1021	TAGTGGCCA CAAAAAATGT GTACCAAGGGG AAGACCGGAG GGAGGGAGA AGGAAGGGAT ATCACCCGGT GTTTTTACA CATGGTCCCC TTCTGGCCTC CCTCCCTCT CCCTTCCCTA
1081	GGAGATAGAA TTTTGCCTCT GCATTCTTG GGCTGGCACA GGTATAATGC TGTGGAAATT CCTCTATCTT AAAACGGAGA CGTAAGGAAC CCGACCGTGT CCATATTACG ACACCCCTAA
1141	GGGAAACTAC AAGGAAGCTG CAAAGCTGGG CGGAACCTCGT TTCCGCAAGC TGGGCTCATC CCCTTGATG TTCCCTCGAC GTTTCGACCC GCCTTGAGCA AAGGCGTTCG ACCCGAGTAG
1201	TAAGTGTCCA TGCATGGCTG CCACACTGCA GTGAACTTTA AAACATTGT GTTCCAGAGA ATTACAGGT ACGTACCGAC GGTGTGACGT CACTTGAAAT TTTGTAAACA CAAGGTCTCT

**Figure 12 (cont.)**

1261	TGTAGAGATG CTCACAATAG TACAAAGGCG GGAGGGAGGT ATTTCCAGAC TAAGAGGAAG ACATCTCTAC GAGTGTATC ATGTTCCGC CCTCCCTCCA TAAAGGTCTG ATTCTCCTTC
1321	AAAAAACCATT GCTGATTAAG CATCTGCATA TGAGGCACCC CACCTCCATA CACACACACA TTTTGGTAA CGACTAATTT GTAGACGTAT ACTCGCGGG GTGGAGGTAT GTGTGTGTGT
1381	CACACACACA CACACACACA CAACCAAACA GAACAAATAC ACATGCATGT CTACAGCCTG GTGTGTGTGT GTGTGTGTGT GTGGTTATG TGTACGTACA GATGTCGGAC
1441	CAGGAACAAA ATGGTATGTC TGTGAGGAAC CAGGAGATGC ACAGGTCTA ACCTCTGTCT GTCCTGTT TACCATACAG ACACTCCTTG GTCTCTACG TGTCCAGGAT TGGAGACAGA
1501	CCTACAAGCC CTGAAGTCTG GTCAGGGTCA AATGTACAAA AGCAGGGCTAA GGAAGCTGTT GGATGTCGG GACTTCAGAC CAGTCCCAGT TTACATGTT TCGTCCGATT CCTTCGACAA
1561	TAGTGAAGA TTTTTTCTT CAACTCTAGG ACAACCTAT TTCTTAGGAT TTGGAGAGTG ATCACTTTCTT AAAAAAAGAA GTTGAGATCC TTGTTGGATA AAGGATCCTA AACCTCTCAC
1621	CTCAGGAGGA AACATTCTAGA CAACTGATGC TCTCTGTGTA CCCAGATTC AGGTATTGGG GAGTCCTCCT TTGTAAGTCT GTTGACTACG AGAGACACAT GGGGCTAAG TCCATAACCC
1681	GTAAGTTAGTT GTGCTCATGT ATGTGCTAGA TATATTAGCA CAGCCTGCCT TCTGCTGCAC CATCAATCAA CACGAGTACA TACACGATCT ATATAATCGT GTGAGACGG AGACGACGTG
1741	AACGCCCTAG AGACCCGGCC TTTCAATGAG CTTAGCTTGT GCTCTGTTTC TGCTCTCTTA TTGCGGAATC TCTGGGCCGG AAAGTTACTC GAATCGAACAC CGAGACAAAG ACGAGAGAAAT
1801	GGTCTAAACT ATGGTGTCAAG TTTTAATAGA ACAAAAGTAT GCATCTGCC TTGGCTTGAG CCAGATTGAA TACCACAGTC AAAATTATCT TGTGTTCTATA CGTAAACGG AACCGAACTC
1861	CCTTTCTGTT TTCAATGCTG ACTTCTCCCC TTTCTCTCCT GTGCTCACCT TACCTTTCCA GGAAAAGCAA AAGTTACGAC TGAAGAGGGG AAAGAGAGGA CACGAGTGGAA ATGGAAAGGT
1921	GAGTGTAGG GACAACCTTT AAGGAGGCCT GTCCCTGGTA GGGGCATCCC TGTTCACCAAG CTCACATTCC CTGTTGAAAA TTCCCTCCGCA CAGGGACCAT CCCCCGTAGGG ACAAGTGGTC
1981	GTGCGCTGTCA TCACCCCACT TGACTGACAT CTACCCCTGGT GACTATGGGT TCCCTCTGTT CACGGACAGT AGTGGGGTGA ACTGACTGTA GATGGGACCA CTGATAACCCA AGGAGAACAA
2041	TGTAGGAAAC GGTGGCTCCA GGTGGAGGCA TCAATCTGTT GGGTTCTGGT TCCCGGCTGC ACATCCCTTG CCACCGAGGT CCACCTCCGT AGTTAGACAA CCCAACACCA AGGGCCGACG
2101	CTTTGGTTT GAAAGTCTCT TCTCTGTATA TTCTTACCT GCATTTGCTT TGTGTGGTGC GAAACCAAAA CTTCAGAGA AGAGACATAT AAGGATGGGA CGTAAACGAA ACACACCACG
2161	TGATGCTGTG CGCAGCAGGA TTCTTGGATG ACTCTCCATC AGTCACAGAC TCCCCCTGTT ACTACGACAC GCGTCGTCTT AAGAACCTAC TGAGAGGTAG TCAGTGTCTG AGGGGGACAA
2221	GCAAAGTGTCA AGGCTGACTC GACAGTCACC GTAAAATCTG AGTCAGTCAC ACACAGGCTG CGTTTCACAG TCCGACTGAG CTGTCAGTGG CATTAGAC TCAGTCAGTG TGTGTCCGAC
2281	TCAGGCCACGG CTTCCACTTG CATGGCTATT CTATTTCTAC ACGTGAGTTT CTGTTGCTGG AGTCGGTGCC GAAGGTGAAC GTACCGATAA GATAAAAGTG TGCACCTAAA GACAACGACCC
2341	CTGGCTGACT GGCATTATCT ATGCTAAGTT GAAATCAGGG GTGCCAGCA GAGCCCATCA GACCGACTGA CCGTAATAGA TACGATTCAA CTTAGTCCC CACGGGTGCT CTCGGGTAGT
2401	TTCTCACTGT CTTGAAACA AAGCTGTACG GTTGATCGA TGAACGTATT TAAAGCATT AAGAGTGTACA GAAACTTTGT TTCGACATGC CAAACTAGCT ACTTGCTATA ATTTCGTAAA
2461	CATGCAATGA CAAAGTGTCTC AGTAGTGGAA GGCAGGTGT GACCAGTCTG CCTGCTCCTT GTACGTTACT GTTTCACGAG TCATCACCTT CCGTCGGACA CTGGTCAGAC GGACGAGGAA

**Figure 12 (cont.)**

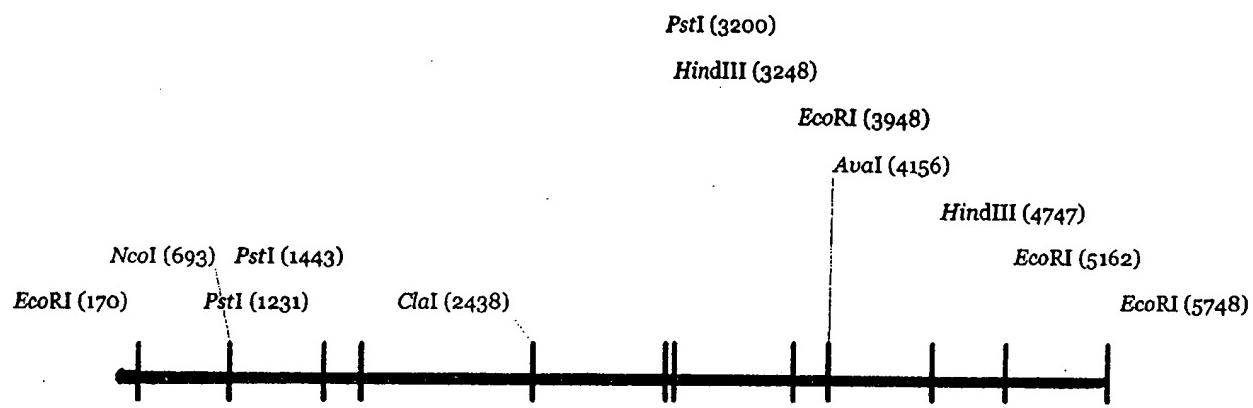
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2581	CAGGGTGGAA CCTTAGCTGA ATATAGTGTG TGTCTCAAGA GGAAGTCAGG GTACTAGCTC GTCACACCTT GGAATCGACT TATATCACAC ACAGAGTCT CCTTCAGTCC CATGATCGAG
2641	AGTGCTCAAT CTCCAGGTAC TATATATACA TTTGCCGTT TTATCTCTAA TGTGAAATAA TCACGAGTTA GAGGTCCATG ATATATATGT AAACGGGCAA AATAGAGATT ACACCTTATT
2701	ATCCCCAAC ACTTGTTAT CGTGTAGCGT ACCTAAAAGA CTATTCTATT ATGGGTGTCC TAGGGGTTTG TGAACAAATA GCACATCGCA TGGATTTCT GATAAGATAA TACCCACAGG
2761	CCACTTTCTT GGTTTGGTCA CCCCCATCCC CCGGTCTCT GCTGTATCTA GAACAGTGC GGTGAAAGAA CCAAACCACT GGGGCTAGGG GGCCAGAAGA CGACATAGAT CTTGTCACTG
2821	TATAAATGAT GTATGGGAAT AGTGTTCCTA TATGATCTGT TGTCTGGAGT ATATGCTACA ATATTTACTA CATAACCTTA TCACAAAGGT ATACTAGACA ACAGACCTCA TATACGATGT
2881	TGTTCATTTA CTGTACAAAA ACCCAGTGC ACGTGTGATG CAAAGCAGTC TCTCTCTGTG ACAAGTAAAT GACATGTTT TGGGTACAGT CGACTACTAC GTTTCGTCAG AGAGAGACAC
2941	TACAGTGCC CACCTATTTA AAAATCACGT ACTTGCCAG AACACTGTGA AACACTTAAC ATGTCACGGG GTGGATAAAAT TTTAGTGCA TGAACGGGT TTGTGACACT TTGTGAATTG
3001	ATAAGAACAA ACGCAGCGTC TGGATTCTT CCAAGGAGAG CAGCTTCTC CACAGGAACA TATTCTGTT TGCCTCGCAG ACCTAAGAAA GGTTCTCTC GTCGAAAGAG GTGTCCTTGT
3061	CAGTAACAAA AGAGGTCCGC CGCCATCCAC ACCCAGCCAA GACACCTCAG AGGCCATAGG GTCATTGTT TCTCCAGGCG GCGGTAGGTG TGGGTGGTT CTGTTGGAGTC TCCGGTATCC
3121	GACAACTCC TTGCTGGCCA ACACCTGCTG GAGCAGGGC ACAGGTCCC GCAACTGATC CTGTTGGAGG AACGACCGGT TGTGGACGAC CTCGTCCTCG TGTCCAGGGT CGTTGACTAG
3181	CTCAGTGGAT GGGTCTGCAG CCAAAGCCTT AATGGGCTCT CTTTGAGG GGAAAGAAAG GAGTCACCTA CCCAGACGTC GGTTCGGAA TTACCCGAGA GAAAACCTCC CCTTTCTTTC
3241	AATTCAAGC TTATGATATC CAATATTATT ATAGTTGATG AGTTAGTAA TTCCAAAAAA TTAAAGTTCG AATACTATAG GTTATAATAA TATCAACTAC TCAATCATT AAGGTTTTT
3301	AAAAGATGAT TTTATATGTA TGACATAAAA AAAATCTTG TAAAGTGCAG AAGTGCATA TTTCTACTA AAATATACAT ACTGTATTTT TTTAGAAC ATTTCACGCG TTCACGTTAT
3361	ATTTAAAGAG GTCTTATCTT TGCATTTATA AATTATAAAT ATTGTACATG TGTGAAATT TAAATTCTC CAGAATAGAA ACGTAAATAT TTAATATTAA TAACATGTAC ACACATTAAA
3421	TTCATGTATT CATTGCACT CTTGTATTT AAAAAAAACTT TACTGTTATG TTTGTATAAT AAGTACATAA GTAAACGTCA GAAACATAAA TTTTTTGAA ATGACAATAC AAACATATTAA
3481	AGAACATTAA TCATTTATTA TAACTCAGAC AAGGTGTAAA TAAATTCTA ATTCAACAG TCTTGTAATT AGTAAATAAT ATTGAGTCTG TTCCACATT ATTAAAGTAT TAAGTTGTC
3541	CCAGTATATA TGCTATATAG GGTGTTACAT TGCAAAATC TCTATCTTG TTCTATTCA GGTCATATAT ACGTATATAC CCACAACTA ACGTTTTAG AGATAGAAAC AAGATAAGTG
3601	ATGCTTAAAG AAGTAAGAAA TCTTTGTGG ATATGTAATT ATACATATAA AGTATATATA TACGAATTTC TTCATTCTT AGAAAACACC TATACATTAA TATGTATATT TCATATATAT
3661	TATGTATGAT ACATGAAATA TATTAGAAA TGTTCTATAAT TTTAATGGAT ATTCTTTGGT ATACATACTA TGTACTTTAT ATAATCTT ACAAGTATTA AAATTACCTA TAAGAAACCA
3721	GTGAATAATT GAATACAACA TTTTAAAAT AAAAAAAAGA AAAAAAAAGA AAAAAAAAGA CACTTATTAA CTTATGTTGT AAAAATTTA TTTTTTTTT TTTTTTTTT TTTTTTTTT

**Figure 12 (cont.)**

3781	AAAATTTTTT TTTTTTTTT TTATTCCAGA GATTAAAGAC ACTAGATCTT TAACCTTGAA TTTAAAAAAA AAAAAAAAATAAGGTCT CTAATTCTG TGATCTAGAA ATTGGAACCTT
3841	GGGCAGGCAA GAGGTGGCA ATGCTGTCAA CATAGAACGTC AGGGACCATT TTCTTCTTGA CCCGTCCGTT CTCCAGCCGT TAGACAGTT GTATCTCAG TCCCCTGGTAA AAGAAGAACT
3901	ACATGCAGTC ACTTTCCCTGA TTGCTCTTCA CATCCTCAAG GCTCCGGAAT TCCGGGGGTG TGTACGTCAAG TGAAAGGACT AACGAGAAGT GTAGGAGTTC CGAGGCCCTTA AGGCCCCCAC
3961	TGGTGGGCTT TGATCTCAGG ACTCTGGAGG CAGAAGCAGG CAGATCTCTG TGAATATGAG ACCACCCGAA ACTAGAGTCC TGAGACCTCC GTCTTCGTC GTCTAGAGAC ACTTATACTC
4021	GCCAGCCTGC ACTACACAGA GCTCCAGACC AGTCATGGCT ACATCATGAA ACCCTGTCTC CGGTGGACG TGATGTGTCT CGAGGTCTGG TCAGTACCGA TGTAGTACTT TGGGACAGAG
4081	AAAAAGAAAA TAAAAACTGT TGTGTTCTA CCATAGTGT AAACTCAGAG TCTGAGTAAT TTTTTCTTTT ATTTTGACA ACACAAAGAT GGTATCACAA TTTGAGTCTC AGACTCATTA
4141	GTCGGGCTGA CATGCTCGGG TGTTAACAT ACCTTCAGCT TTGACGAGGC GCTGAACAGT CAGCCCGACT GTACGAGCCC ACAAAATTGTA TGGAAAGTCGA AACTGCTCCG CGACTTGTCA
4201	CAAAGTCTGG CCTTGGGGAG CGGTGGCTGT GTTGTGCTC AAGTCCACCG TGAAATCCTG GTTTCAGACC GGAACCCCTC GCCACCGACA CAAACACGAG TTCAGGTGGC ACTTTAGGAC
4261	ATTGTGAATT TGGACAACCG TGTCCCTCTT CTTGGCCTTC CATGCAACCT CCAACTTCAT TAACACTTAA ACCTGTTGGC ACAGGAAGAA GAACCGGAAG GTACGTTGGA GGTTGAAGTA
4321	GTTGGTCATT TTGTCAAAAC ACTGTGTGAT GTTTTATCA ATATACTGCC ATTCCACATA CAACCAGTAA AACAGTTTG TGACACACTA CAAAAATAGT TATATGACGG TAAGGTGTAT
4381	TGTAGAGATG TAGTCTGCCT GGCTTCCCTT TTCTTTAGCC AATCGAATGC TCTTGATCAT ACATCTCTAC ATCAGACGGA CCGAAAGGAA AAGAAATCGG TTAGCTTACG AGAACTAGTA
4441	GCCCTCAATC TCATCTCTAG CTTTTATCAC GTCTCTGCTA ATTCTGAAA CTTGAATCGA CGGGAGTTAG AGTAGAGATC GAAAATAGTG CAGAGACGAT TAAGGACTTT GAACTTAGCT
4501	AGTTTCTTC TGGTCATCT CAATGGTGT GTTCAGTTCC TTCTGAATCT CATTCAAGTTT TCAAAAGAAG ACCAAGTAGA GTTACCACTA CAAGTCAGG AAGACTTACA GTAAGTCAAA
4561	CTCGTACTCC TCCATGTCAA AGTCACTGAC ACACTCATCG TCATTGGTGT AGGAAAGCTG GAGCATGAGG AGGTACAGTT TCAGTGACTG TGTGAGTAGC AGTAACCACA TCCTTCGAC
4621	CTCTTGGTA ATCAGTTCTT TTAGCCAGGA GATTGTTTG TTCACACTGT CTACCCCTGA GAGAAACCAT TAGTCAAGGA AATCGGTCTT CTAACAAAAC AAGTGTGACA GATGGGGACT
4681	ACCACATACC TGGAAAACGT TGTGCTCTAT TTTCTTTTCC AAAACCAGGG TGTCTTTT TGGTGTATGG ACCTTTGAC ACACGAGATA AAAGAAAAGG TTTGGTCCC ACAAGAAAAA
4741	GGGGGAAGCT TGCTGGAA AGCCAAGAAA GGCTAAAGAG AAAATGGAAA TTAATGTTTC CCCCCTCGA ACGAACCTT TCGGTTCTT CCGATTTCTC TTTTACCTTT ATTACAAAG
4801	TTTACTCCC TTCAACATCA AGGTAGGAA TATGTATTTC ATAAAAGCTA ACAACTCACA AAAATGAGGG AAGTTGTAGT TCCAATCTT ATACATAAAAG TATTTCGAT TGTTGAGTGT
4861	GGCAATCTTA GACATCACTG ACTGCTGGC AGGCGACTGC TTGGGGGGAG CTGGAGAGCC CCGTTAGAAT CTGTAGTGAC TGACGAACCG TCCGCTGACG AACCCCCCTC GACCTCTCGG
4921	TTCTCTTCTT TTGTCATGTTG CGTAAAAAAA TTGCGAGATA TGGGGCTGGAA AGATAACAAAC AAGAGAAAAGA AAGTACAACA GCATTTTTT AACGTCTTAT ACCCCGACCT TCTATTGTTG
4981	TTTAACCTCTC TTGACAGCCT GCACGTGATTT TTTCTGGACCA AATTCTCAA TGGCATCTAT AAATTGAGAG AAGTGTGGAA CGTGAACAAA AAAGACCTGT TTAAGAAGTT ACCGTAGATA

**Figure 12 (cont.)**

5041	TATCGCTTT GCTACTACGT TTGGTCCTG TTGAGCATT CCTTCAAAAA CAAAAAAAGC ATAGCGAAA CGATGATGCA AACCCAGGAC AACTCGAAA GGAAGTTTT GTTTTTTCG
5101	ACATTTTAA AAAGTCAGG TTAAGATCCA CCTGCAAAA AAAGCTGCAA TATAAGCGAG TGTAAAAATT TTTCAGTCC AATTCTAGGT GGACGTTTT TTTCGACGTT ATATTCGCTC
5161	GAATTCTAGT TGTCACAGGA AATAAAAATG TCTGTTCCC CTATAATCAA TGTAGACTGA CTTAAGATCA ACAGTGTCTT TTATTTTAC AGACAAGGGT GATATTAGTT ACATCTGACT
5221	TAATATTATG CCAGCAAATA GTTTGAAGT CCTAGGCACA GTGGGAGGAG GTTTGTTCC ATTATAATAC GGTCGTTAT CAAAACCTCA GGATCCGTG CACCCCTCTC CAAAACAAGG
5281	ACGCTGTTCA TAAGCCAATA CCCCAGCAAA AGACCTAAA GGACAACCTG TAATTTGGGA TGCAGACAAGT ATTGCGTTAT GGGGTCGTT TCTGGAATT CCTGTTGAAC ATTAAACCT
5341	CATTCACATC TGCCCTCTC ATCTGATCTG GCTCCCAGTG TCACCTCTCA ACACGGTCT GTAAGTGTAG ACAGGAGAAG TAGACTAGAC CGAGGGTCAC AGTGAGAGAT TGTGCCAGGA
5401	TAGAGGGACA ATTTATCCCT GCCTCTGCTT GATCTTATGC ATGTATCTGT ATTCTTCCAG ATCTCCCTGT TAAATAGGGA CGGAGACGAA CTAGAATACG TACATAGACA TAAGAAGGTC
5461	CCATCCCTGG CGACCTGATT TTTCTAAGGC ACCCAAAACT GTAAGCTACT TCTTATAATC GGTAGGGACC GCTGGACTAA AAAGATTCCG TGGGTTTGA CATTGATGA AGAATATTAG
5521	TATAATTCTG AGCATATTAG TTAGCCTGAG CCTCCAGGAT ATCTTCTTC CCTATACTCA ATATTAAGAC TCGTATAATC AATCGGACTC GGAGGTCTA TAGAAAGAAG GGATATGAGT
5581	GTCCAGTTTT AGCTGCCAG AAGGATTCAA AGCTGATCTA CGAGTAGATC ACTCCTGCT CAGGTCAAAA TCGACGGTC TTCCTAAGTT TCGACTAGAT GCTCATCTAG TGAGGACAGA
5641	ACAGCTTGT CCAGATCTG TTTCTCAAGC CCTGGAAGCC ATCAGCCAGG TAAGATTGTA TGTCGAACAA GGTCTAGAAC AAAGAGTTCG GGACCTTCGG TAGTCGGTCC ATTCTAACAT
5701	AAACAATCCC TTTCTAATCA TGGGTGTGGC CCAAAGTGAA TGGCCGGAAT TC TTTGTAGGG AAAGATTAGT ACCCACACCG GGTTCACTT ACCGGCCTTA AG



**Figure 13**

5752 bp

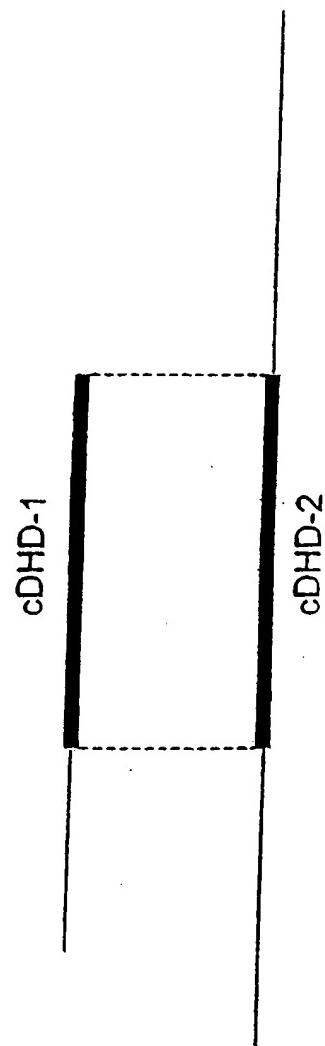


Figure 14

**Figure 15**

1	CGCCCGGGCA GGTCTGTTGG AGGGCAGTTG GTCAACCTGA CCAGAGAGAG CTGAGCTGGA GCGGGCCCGT CCAGACAAACC TCCCGTCAAC CAGTTGGACT GGTCTCTCTC GACTCGACCT
61	AGACCCCCACT GATGGTGTGC TGCCTTCAG TCCAGGAAGA AAGAAAGGAA GGATTCTGAG TCTGGGGTGA CTACCACACG ACGGAAAGTC AGGTCTCTCT TTCTTCTCCTT CCTAAGACTC
121	GATTGGGCA AAGCCACATT CCTGGAGAAG TCTGTATACT GATGCCAAC CCAAGAGCTG CTAAACCCGT TTGGTGTAA GGACCTCTC AGACATATGA CTACGGTTG GGTTCTCGAC
181	AGCTGCTGAT GAGGCCAGG GAGTAGCCCCA CGCGCCCTGA GCTGTTGGCT AGCAAGGGCT TCGACGACTA CTCCGGGTCC CTCATCGGGT GCGCGGGACT CGACAACCGA TCGTTCCGGA
241	TCCTGCTCCA TGTGGCATGG AAAAATTATA TGGTTTGACG GATGAAAAGG TGAAGGCCTA AGGACGAGGT ACACCGTACC TTTTAATAT ACCAAACTGC CTACTTTCC ACTTCCGGAT
301	TCTTCTCTC CATCCCCAGG TATTAGATGA ATTTGTTCT GAAAGTGTAA GTGCAGAGAC AGAAAAGAGAG GTAGGGGTCC ATAATCTACT TAAACAAAGA CTTTCACAAT CACGTCTCTG
361	TGTGGAAAAG TGGCTGAAGA GGAAAACCAA CAAAGAAAA GATGAACCAT CTCCCAAGGA ACACCTTTTC ACCGACTTCT CCTTTGGTT GTTTCGTTT CTACTTGGTA GAGGGTTCCCT
421	AGTCAGCAGG TACCAAGATA CGAATATGCA GGGAGTCGTG TACGAGCTGA ACAGCTACAT TCAGTCGTCC ATGGTCCTAT GCTTATACGT CCCTCAGCAC ATGCTCGACT TGTCGATGTA
481	AGAGCAGCGC CTGGACACGG GCAGGGACAA CCACCTGCTC CTCTATGAGC TCAGCAGCAT TCTCGTCGCG GACCTGTGCC CGCCCCCTGTT GGTGGACGAG GAGATACTCG AGTCGTCGTA
541	CATCAGGATA GCCACAAAAG CCGACGGATT TGCACTGTAC TTCCTTGGAG AGTGCATAAA GTAGTCCTAT CGGTGTTTC GGCTGCCTAA ACGTGACATG AAGGAACCTC TCACGTTATT
601	TAGCCTGTGT GTGTTCATAC CACCCGGGAT GAAGGAAGGC CAACCCCGGC TCATCCCTGC ATCGGACACA CACAAGTATG GTGGGCCCTA CTTCCCTTCCG GTTGGGGCCG AGTAGGGACG
661	AGGGCCCACATC ACCCAGGGTA CCACCATCTC TGCCTACGTG GCCAAGTCTA GGAAGACGTT TCCCGGGTAG TGGGTCCCAT GGTGGTAGAG ACGGATGCAC CGGTTCACT CTTCTGCAA
721	GTTGGTAGAG GATATCCTTG GGGATGAGCG ATTCCTCGA GGTACTGGCC TCCAATCAGG CAACCATCTC CTATAGGAAC CCCTACTCGC TAAAGGAGCT CCATGACCGG ACCTTAGTCC
781	AACCCGCATC CAGTCTGTT TTTGCTTGCC CATTGTCACT GCCATTGGAG ACTTGATTGG TTGGCGTAG GTCAGACAAG AAACGAACGG GTAACAGTGA CGGTAACCTC TGAACTAACC
841	CATCCTTGAA CTGTACAGGC ACTGGGGCAA AGAGGCCTTC TGCCTCAGCC ATCAGGAGGT GTAGGAACCT GACATGTCCG TGACCCCGTT TCTCCGGAAG ACGGAGTCGG TAGTCCTCCA
901	TGCAACAGCC AATCTGCTT GGGCTCCGT AGCAATACAC CAGGTGCAGG TGTGTAGAGG ACGTTGTCGG TTAGAACGAA CCCGAAGGCA TCGTTATGTG GTCCACGTCC ACACATCTCC
961	TCTGCCAAA CAGACCGAAC TGAATGACTT CCTACTCGAC GTATCAAAGA CATACTTGA AGAGCGGTTT GTCTGGCTTG ACTTACTGAA GGATGAGCTG CATACTTCT GTATGAAACT
1021	TAACATAGTT GCCATAGACT CTCTACTTGA ACACATCATG ATATATGAA AAAATCTAGT ATTGTATCAA CGGTATCTGA GAGATGAAC TGTGTAGTAC TATATACGTT TTTTAGATCA
1081	GAACGCCGAC CGCTGCGCGC TCTTCCAGGT GGACCACAAG AACAGGAGC TGTACTCGGA CTTGCAGCGCG AGAAGGTCCA CCTGGTGTTC TTGTTCTCG ACATGAGCCT
1141	CCTGTTGAC ATTGGGGAGG AGAAGGAGGG GAAGCCATC TTCAAGAAGA CCAAGGAGAT GGACAAACTG TAACCCCTCC TCTTCCCTCC CTTGGGTAG AAGTCTTCT GGTTCTCTA
1201	CAGATTTCC ATTGAGAAAG GGATTGCTGG TCAAGTGGCA AGAACAGGGC AAGTCTTGAA GTCTAAAAGG TAACTCTTCC CCTAACGACC AGTTCACCGT TCTTGTCCGC TTCAGAACCTT

**Figure 15 (cont.)**

1261	CATTCCCGAT GCCTACCGGG ACCCTCGCTT TAACAGGGAG GTGGACCTGT ACACAGGCTA GTAAGGGCTA CGGATGCGCC TGGGAGCGAA ATTGTCCCTC CACCTGGACA TGTGTCCGAT
1321	CACCACGAGG AACATTCTGT GTATGCCCAT AGTGAGCGA GGCAGCGTGA TTGGCGTGGT GTGGTGCTCC TTGTAAGACA CATACTGGTA TCACTCGGCT CCGTCGCACT AACCGCACCA
1381	GCAGATGGTG AACAAAGATCA GCGGTAGCGC CTTCTCCAAG ACAGACGAGA ACAACTTCAA CGTCTACACAC TTGTTCTAGT CGCCATCGCG GAAGAGGTTG TGCTGCTCT TGTTGAAGTT
1441	GATGTTGCT GTCTTCTGCG CACTGGCCTT GCACTGTGCT AACATGTACC ACAGGATCCG CTACAAACGA CAGAAGACGC GTGACCGGAA CGTGACACGA TTGTACATGG TGTCCTAGGC
1501	CCACTCAGAA TGCATCTACA GGGTTACCAT GGAGAACGTT TCCTACCACA GCATCTGCAC GGTAGTCTT ACGTAGATGT CCCAATGGTA CCTCTTCGAA AGGATGGTGT CGTAGACGTG
1561	CTCCGAGGAG TGGCAAGGCC TCATGCGCTT CAACCTACCA GCACGCATCT GCCGGGACAT GAGGCTCCTC ACCGTTCCGG AGTACCGGAA GTTGGATGGT CGTGTAGA CGGCCCTGTA
1621	CGAGCTATTC CACTTGACA TTGGTCCTTT CGAGAACATG TGGCCTGGGA TCTTTGTCTA GCTCGATAAG GTGAAACTGT AACCAGGAAA GCTCTTGAC ACCGGACCT AGAAACAGAT
1681	CATGATCCAT CGGTCTGTG GGACATCCTG TTTGAACCT GAAAAATTGT GCCGTTTAT GTACTAGGTA GCCAGAACAC CCTGTAGGAC AAAACTGAA CTTTTAAACA CGGCAAAATA
1741	CATGTCTGTG AAGAAGAACT ATCGGCGGGT TCCTTACAC AACTGGAAGC ATGCAGTCAC GTACAGACAC TTCTTCTGA TAGCCGCCA AGGAATGGTG TTGACCTTCG TACGTCACTG
1801	GGTGGCACAC TGCATGTATG CCATACTTCA AAACAACAAT GGCTCTTCA CAGACCTCGA CCACCGTGTG ACGTACATAC GGTATGAAGT TTTGTTGTTA CGGGAGAAGT GTCTGGAGCT
1861	GCGCAAAGGC CTGCTAATTG CGTGTCTGTG CCATGACCTG GACCACAGGG GCTTCAGTAA CGCGTTCCG GACGATTAAAC GCACAGACAC GGTACTGGAC CTGGTGTCCC CGAAGTCATT
1921	CAGCTACCTG CAGAAGTTCG ACCACCCCCCT GGCGGCCTG TACTCCACCT CCACCATGGA GTGCGATGGAC GTCTTCAAGC TGGTGGGGGA CGCCCGCGAC ATGAGGTGGA GGTGGTACCT
1981	GCAACACCAC TTCTCCCAGA CGGTGTCCAT CCTTCAGCTG GAAGGGCACA ATATCTCTC CGTGTGGTG AAGAGGGTCT GCCACAGGTA GGAAGTCGAC CTTCCGTGT TATAGAAGAG
2041	CACCCCTGAGC TCCAGCGAGT ACGAGCAGGT GCTGGAGATC ATCCGCAAAG CCATCATCGC GTGGGACTCG AGGTGCTCA TGCTCGTCCA CGACCTCTAG TAGCGTTTC GGTAGTAGCG
2101	CACCGACCTC GCCCTATACT TTGGGAACAG GAAGCAGTTG GAGGAGATGT ACCAGACAGG GTGGCTGGAG CGGGATATGA AACCCCTGTC CTTCGTCAAC CTCCCTCTACA TGGTCTGTCC
2161	GTGCGTGAAC CTCCACAAACC AGTCCCACATCG AGACCGTGTG ATCGGCTTGA TGATGACTGC CAGCGACTTG GAGGTGTGG TCAGGGTAGC TCTGGCACAG TAGCCGAACT ACTACTGACG
2221	CTGTGATCTT TGCTCTGTGA CCAAACATATG GCCAGTTACA AAATTGACAG CGAATGATAT GACACTAGAA ACGAGACACT GGTTTGATAC CGGTCAATGT TTTAACTGTC GCTTACTATA
2281	ATATGCAGAA TTCTGGGCTG AGGGTGTGATGA GATGAAGAAG CTGGGCATAC AGCCCATTCC TATACGTCTT AAGACCGAC TCCCACTACT CTACTTCTTC GACCCGTATG TCGGGTAAGG
2341	TATGATGGAC AGAGACAAGC GAGATGAAGT CCCTCAAGGG CAGCTCGGAT TCTACAATGC ATACTACCTG TCTCTGTGCG CTCTACTTCA GGGAGTTCCC GTCGAGCCTA AGATGTTACG
2401	TGTGGCCATT CCCTGCTATA CCACCTTGAC GCAGATCCCTC CCACCCACAG AGCCTCTGCT ACACCGGTAA GGGACGATAT GGTGGAACGT CGTCTAGGAG GGTGGGTGTC TCGGAGACGA
2461	GAAGGCCTGC AGGGATAACC TCAATCAGTG GGAGAAGGTA ATTCCGGGGG AAGAGACAGC CTTCCGGACG TCCCTATTGG AGTTAGTCAC CCTCTTCCAT TAAGCGCCCC TTCTCTGTGCG

**Figure 15 (cont.)**

2521	AATGTGGATT TCAGGCCAG GCCCGCGCC TAGCAAGAGC ACACCTGAGA AGCTGAACGT TTACACCTAA AGTCCGGTC CGGGCCGCGG ATCGTTCTCG TGTGGACTCT TCGACTTGCA
2581	GAAGGTTGAA GACTGATCCT GAAGTGCAGT CCTGATGTCT GCCCAGCAAC CGACTCAACC CTTCCAACCTT CTGACTAGGA CTTCACTGCA GGACTACAGA CGGGTCGTTG GCTGAGTTGG
2641	TGCTTCTGTG ACTTCGTTCT TTTGTTTC AAGGGGTGAA AACCCCCGT CAGAAGGTAC ACGAAGACAC TGAAGCAAGA AAAACAAAAG TTCCCCACTT TTGGGGGACA GTCTTCCATG
2701	CGTCGCATAT CCATGTGAAG CAGACGACTC CCTGCTTGCC GCACACACCT CGGACAGTGA GCAGCGTATA GGTACACTTC GTCTGCTGAG GGACGAACGG CGTGTGTGGA GCCTGTCACT
2761	GCAACCCAGG CTCTGCCGTG TTCAAGACGTC GGCTACTCCG TGACCTCCGA CGTTGGGTCC GAGACGGCAC AAGTGCAG CCGATGAGGC ACCGAGGTGG ACTGGAGGCT
2821	ATGCTATTTG CTCCCAGGCC AGCACTGCAC TGTCTGGAGG GGGCAGAGAC CACAGGAGAG TAGATAAAC GAGGGTCCGG TCGTGACGTG ACAGACCTCC CCCGTCCTCG GTGTCCTCTC
2881	GTTCTGCCT GCATCCTCCC ATGAGGGTGT GGCCAGTCC CTAGTTCTGT GCCATGCTGC CAAGAACGGA CGTAGGAGGG TACTCCCACA CCGGTCAAGG GATCAAGAGCA CGGTACGACG
2941	TGCTTGGTGG CATTGGTAG GAATGGGACA CACGCCCTT GTTGTGAAGT TTACATGTGA ACGAACCACC GTAACCAATC CTTACCCGT GTGCGGGAA CAACACTTC AATGTACACT
3001	CCTCTTATA GGTTAACTGA GTTGTGGCC TGGACACATG TAATGAAGGT CACAGTCCAC GGAAGAATAT CCAATTGACT CAAACACCGG ACCTGTGTAC ATTACTCCA GTGTCAGGTG
3061	AGGTGACAGA GAAATCCAAA CTGTTGATTA CAGGTGCACT ACAGGTATGC TCTTCAGTC TCCACTGTCT CTTTAGGTT GACAACTAAT GTCCACGTGA TGTCCATACG AGAAAGTCAG
3121	TATCTGGGGG CACATAGGTG AGTCTGCTCC ACTCAGAANN AAGCATACCT CTGCCCTCAT ATAGACCCCC GTGTATCCAC TCAGACGAGG TGAGTCTNN TTCGTATGGA GACGGGAGTA
3181	CCAGGGGACA CAGGGTACAT CCCAGGCATC GGGGAACGT AGCTCTCACT TCAAACCATG GGTCCCTGT GTCCCAGTGA GGGTCCGTAG CCCCTTGACT TCGAGAGTGA AGTTTGGTAC
3241	TCAAAGAATT AAAACACCTC CCCTCCCCCT CACTGTAGCC TTCGACAACT GCGCCAATCC AGTTTCTTAA TTTGTGGAG GGGAGGGGA GTGACATCGG AAGCTGTTGA CGCGGTTAGG
3301	CTTATACAA AGAAAATAAA AGTAAGGCAT ATAAATTCC TCCAGCAAGC AAATCTGTG GAAATATGTT TCTTTATTT TCATTCCGTA TATTTAAAGG AGTCGTTCG TTTAGAACAC
3361	GGTAAAAAAA AAGCATGTGA ATNNTAACAA CNTCTANANT NTCNCNGNAT GTTATGGCAG CCATTTTTT TTGTCGACT TANNATTGTT GNAGATNTNA NAGNGNCNTA CAATACCGTC
3421	AATTTAGTC ACGTCCAAAA CAAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA TTAAAATCAG TGCAGGTTTT GTTTTCTAA TAAGGTCTTC TATGGAGTAG GATACGGACT
3481	AAGGCTCCAC AGCATGGCGT CCGTCTCCCA GGGTTCTGAT CCGTCTCCTC ACGGTGCAAT TTCCGAGGTG TCGTACCGCA GGCAGAGGGT CCCAAGACTA GGCAGAGGAG TGCCACGTTA
3541	CAGGCAGGAC AGAGAGGAGG GCTGCAGGGC TACCACATTG ACCCAGAAGG TATCTCCTCT GTCCGTCTG TCTCTCTCC CGACGTCCCCG ATGGTGTAAAC TGGGTCTTCC ATAGAGGAGA
3601	CACCAATTCAAG ACATCCATAA GGAATGCCAA ATGCTGTATT GAATAGTTCT CTGTGTGACT GTGGTAAGTC TGTAGGTATT CCTTACGGTT TACGACATAA CTTATCAAGA GACACACTGA
3661	TTCTAGAGAA GCCAGGACAC CCTGAGCCTT TCCNNGGGAA CTCTAAGGAG TCACAGGTTTC AAGATCTCTT CGGTCTGTG GGACTCGGAA AGNNCCCTT GAGATTCTC AGTGTCCAAG
3721	ACACCGTGGG GATTTTCAGG ATAGCATGGA GACAGAGATC CGGTGCGTTGT TCTCACTCGT TGTGGCACCC CTAAAAGTCC TATCGTACCT CTGTCTCTAG GCCAGCAACA AGAGTGAGCA

**Figure 15 (cont.)**

3781	GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACCTTGCA GGAGCAGGAG CTCGGAACTC TTCCCTCTCG ACTGGTCTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC
3841	AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTATGGTA TGTGTGTCCT
3901	GCTTGGCATT TGCAAAGTCT ATTCACTTTC CTTCCGCCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATGCC
3961	AGTGGGCTGA ACACGTAAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG
4021	CATCTCCTCC CCTGCTGTGT CCTACTCCAT TTACTGGTTA CAAGGTGATG TCAACAAGAG GTAGAGGAGG GGACGACACA GGATGAGGTA AATGACCAAT GTTCCACTAC AGTTGTTCTC
4081	AAGCTATCAC AACACCAAGGG CTGTGCACAC GTGCACACAC ATGTATGCAC AAGCACACAG TTCGATAGTG TTGTGGTCCC GACACGTGTG CACGTGTG TACATACGTG TTCGTGTGTC
4141	ATGTATGTAC AGCACACACA CACACACACA CCCCCAAAAGG AGAGAAAAGG AAGAAAACAT TACATACATG TCGTGTGTGT GTGTGTGTGT GGGGTTTCC TCTTTTCC TTCTTTGTA
4201	TTATAAAAAG CGACAGCTAC CCCATATCAA AATAGTCTTT CCTGTAGGAA ACAGGAGCTC AATATTTTC GCTGTCGATG GGGTATAGTT TTATCAGAAA GGACATCCTT TGTCTCGAG
4261	TCCATAAGGA ATTATCATGA GTGTGTTCTC CCATCAGTGC ACTCTCCCAG GGGTGTCTCAC AGGTATTCCCT TAATAGTACT CACACAAGAG GGTAGTCACG TGAGAGGGTC CCCACGAGTG
4321	TGAAGCTGGT CCACRTCTAT AAACAGGTGA CACTGGCTGC AGCAAAAAGC CATTGATCC ACTTCGACCA GGTGYAGATA TTTGTCCACT GTGACCGACG TCCTTTTCG GTAAGCTAGG
4381	ACACAAATTG ATCTTCTATC ATCTTGGAAAT CTGAATTGCA GGGAGGAGCA GYATGTAAGA TGTGTTAAC TAGAAGATAG TAGAACCTTA GACTTAACGT CCCTCCTCGT CRTACATTCT
4441	CGACCGTTA ATTCAAGGCAT TCCGAAGGCA TGAGCGCATG GATTCTRTCA CCAAGCGTAT GCTGGCAAAT TAAGTCCGTA AGGCTCCGT ACTCGCGTAC CTAAGAYAGT GGTCGCGATA
4501	AAAAGGACCC TGGCATTGGG AAACCTATGA CGGACTGTT TTGCTGTAGA AGTAGGGATT TTTCCTGGG ACCGTAACCC TTTGGATACT GCCTGACAAA AACGACATCT TCATCCCTAA
4561	TTACAGAACT CTCCCTGRAT TTGCCCTGCC TGGGGCAGTT TTGCGAGAGGA ACCTGCCAGA AATGTCTTCA GAGGAACYTA AACGGGACGG ACCCGTCAA AACGTCTCCT TGGACGGTCT
4621	GATTATTGG CTGGTCAGTC TCTTGTGAAA TAGTATCATG TGAGAACAG TTTGTAAGAAA CTAAATAACC GACCAGTCAG AGAACACTTT ATCATAGTAC ACTCTTTGTC AAACATCTT
4681	AAAACATACAC CTGGGAAGAC CTTGCAACA TTGTTCTTC CATGGGCCAA GACTCAGTTA TTTGATATG GACCTTCTG GAAACGTTGT ACAAGGAAG GTACCCGGTT CTGAGTCAAT
4741	GGAGGCATAA ATCTGCCGG AATAAACTAG GCCAGGATAC AGCCATGTT AGTTAAATAAT CCTCCGTATT TAGACGGGCC TTATTTGATC CGGTCTATG TCGGTACAAA TCAATTATTA
4801	TTGGTTTAG AATTCAACACA GGCAGGATTG GTTTTTGT GTCTGGCAA GTGGAGCATA AACCAAAATC TTAAGTGTGT CCGTCCTAAC CAAAAAAACA CAGAACCGTT CACCTCGTAT
4861	TTAACATACAGGCATGGGA ATCCCTGCCTC TTAGCTTTTC CCACCCCTT GTCTCACCAA AAATTGTATG TCCGTACCCCT TAGGACGGAG AATCGAAAAG GGTGGGAGAA CAGAGTGGTT
4921	GTTCCTCTC TCCAAAGGTT TCCAGGAATT TCTCATTAAT GGCTGATGCA AACTTAGTGA CAAAAGAG AGGTTCCAA AGGTCTTAA AGAGTAATTA CCGACTACGT TTGAATCACT
4981	ATAATAATGA ATATAAACAA TGCTCACCTC ACCAAAATTA TATTATTTGC AGTCATTGT TATTATTACT TATATTGTT ACGAGTGGAG TGGTTTAAT ATAATAAACG TCAGTAAACA

**Figure 15 (cont.)**

5041	GATAACACAA ATTTTATCGC AATGGTTATT ATTTAATTG TGGCCACACA CTGTGGTTAT CTATTGTGTT TAAAATAGCG TTACCAATAA TAAATTAAAC ACCGGTGTGT GACACCAATA
5101	CTTTGTTGT GGTTGTTCT GAGAAAATGT TCTTGGATAT GTAAGTGCCA ATACCAGTGT GAAAACAACA CCAACAAAGA CTCTTTACA AGAACCTATA CATTCACGGT TATGGTCACA
5161	GAAGTATTGA TCCCAGGCAG CAAAATACAG CCTAAGGTT GTAAACATCA ATTCTATCTC CTTCATAACT AGGGCCCGTC GTTTATGTC GGATTCCAAA CATTTGTAGT TAAGATAGAG
5221	AGTTCATCAG AGGGCCTGAG AAGCTGCAGG GCAGTGTAAA GTAAAGTATG CTGGGCTGGT TCAAGTAGTC TCCCAGACTC TTCGACGCC CGTCACATTT CATTTCATAC GACCCGACCA
5281	GGTGGTCAGC CTCCCCTTGC CAAGAAGAGA GCAATTGAAT CCTGTCCCCA GCTCCCTCCA CCACCAGTCG GAGGGAAACG GTTCTTCTCT CGTTAACCTA GGACAGGGGT CGAGGGAGGT
5341	CGCCTGAAGA GTGACCAAGTG CTGGCCCGAC GGATCGCTGA GATATTCTCC CATAATGGCA GCGGACTTCT CACTGGTCAC GACCGGGCTG CCTAGCGACT CTATAAGAGG GTATTACCGT
5401	AAAAAAATAGG CAGTTGATG TGACCTGTT AGTGTGGCTC TCCTCTTTG AGCATGTGTT TTTTTATCC GTCAAACATAC ACTGGACAAA TCACACCGAG AGGAGAAAAC TCGTACACAA
5461	AGCATTTTA TTTTATACTC ATCCAGTGAA CTCTGCTCTT CCAAGTGTGT TCATGTATGT TCGTAAAAAT AAAATATGAG TAGGTCACTT GAGACGAGAA GGTCACACA AGTACATACA
5521	GCTAGATATA TTAGCACAGC CTGCCTTCTG CTGCACAACG CCTTAGAGAC CGGGCCTTTC CGATCTATAT AATCGTGTG GACGGAAGAC GACGTGTG GGAATCTCTG GGCGGAAAG
5581	AATGAGCTTA GCTTGTGCTC TGTTTCTGCT CTCTTAGGTC TAAACTATGG TGTCAGTTT TTACTCGAAT CGAACACGAG ACAAAAGACGA GAGAACCCAG ATTTGATACC ACAGTCAAAA
5641	AATAGAACAA AAGTATGCAT CTGGCCTTGG CTTGAGCCTT TTGAGCTTCA ATGCTGACTT TTATCTTGTGTT TTCATACGTA GAACGGAACC GAACTCGGAA AAGCAAAAGT TACGACTGAA
5701	CTCCCCTTTC TCTCCTGTGC TCACCTTACCTTCCAGAGT GTAAGGGACA ACTTTAAGG GAGGGAAAG AGAGGACACG AGTGGATGG AAAGGTCTCA CATTCCCTGT TGAAAATTCC
5761	AGGCGTGTCC CTGGTAGGGG CATCCCTGTT CACCAGGTGC CTGTCATCAC CCCACTTGAC TCCGCACAGG GACCATCCCC GTAGGGACAA GTGGTCCACG GACAGTAGTG GGGTGAACGTG
5821	TGACATCTAC CCTGGTGAATCTGGTTCCCTTGTGTTGGTGGAGGTG GCTCCAGGTG ACTGTAGATG GGACCACTGAA TACCCAAAGGA GAAACAAACAT CCCTGCCAC CGAGGTCCAC
5881	GAGGCATCAA TCTGTTGGGT TCTGGTCCCC GGCTGCCTT GGTTTGAAA GTCTCTTCTC CTCCGTAGTT AGACAACCCA AGACCAAGGG CCGACGGAAA CCAAAACTTT CAGAGAACAG
5941	TGTATATTCC TACCCGTGAT TTGAGCTTGTG TGGTGTGCTGAT GCTGTGGCAG TAGGATCTG ACATATAAGG ATGGGACGTA AACGAAACAC ACCACGACTA CGACACCGTC ATCCTAGAAC
6001	GATGACTCTC CATCAGTCAC AGACTCCCCC TGTTGCAAAG TGTCAGGCTG ACTCGACAGT CTACTGAGAG GTAGTCAGTG TCTGAGGGGG ACAACGTTTC ACAGTCCGAC TGAGCTGTCA
6061	CACCGTAAAAA TCTGAGTCAG TCACACACAG GCTGTGCAGCC ACGGCTTCCA CTTGCATGGC GTGGCATTTC AGACTCAGTC AGTGTGTGTC CGACAGTCGG TGCCGAAGGT GAACGTACCG
6121	TATTCATTT TCACACGTGA GTTCTGTTG CTGGCTGGCT GACTGGCATT ATCTATGCTA ATAAGATAAA AGTGTGCACT CAAAGACAAC GACCGACCGA CTGACCGTAA TAGATACGAT
6181	AGTGAAATC AGGAGTGTGC CCAGCAGAGC CCATCATTCT CACTGTCTT GAAACAAAGC TCAACTTTAG TCCTCACAG GGTCGTCTCG GGTAGTAAGA GTGACAGAAA CTTTGTTTCG
6241	TGTACGGTTT GATCGATGAA CGTATTAAACGATTCATG CAATGACAAA GTGCTCAGTA ACATGCCAAA CTAGCTACTT GCATAAATTTC CGTAAAGTAC GTTACTGTTT CACGAGTCAT

**Figure 15 (cont.)**

6301	GTGGAAGGCA GGCTGTGACC AGTCTGCCTG CTCCCTACTA TAATTGTGAG GATTTGTTAC CACCTTCCGT CCGACACTGG TCAGACGGAC GAGGAATGAT ATTAACACTC CTAAACAATG
6361	TGGAACAGTA CATGGAGGCC TGACCTTGTC GGGGCACAGG GTGGAACCTT AGCTGAATAT ACCTTGTCA GTACCTCCGG ACTGGAACAC CCCCGTGTCC CACCTTGAA TCGACTTATA
6421	AGTGTGTGTC TCAAGAGGAA GTCAGGGTAC TAGCTCAGTG CTCAATCTCC AGGTACTATA TCACACACAG AGTTCTCCTT CAGTCCCAGT ATCGAGTCAC GAGTTAGAGG TCCATGATAT
6481	TATACATTTG CCCGTTTAT CTCTAATGTG AAATAAATCC CCAAACACTT GTTATCGTG ATATGTAAAC GGGCAAAATA GAGATTACAC TTTATTTAGG GGTTTGTGAA CAAATAGCAC
6541	TAGCGTACCT AAAAGACTAT TCTATTATGG GTGTCCCCAC TTTCTGGTT TGGTCACCCCC ATCGCATGGA TTTTCTGATA AGATAATACC CACAGGGGTG AAAGAACCAA ACCAGTGGGG
6601	GATCCCCCGG TCTTCTGCTG TATCTAGAAC AGTGAECTATA AATGATGTAT GGGAAATAGTG CTAGGGGCC AGAAGACGAC ATAGATCTG TCACTGATAT TTACTACATA CCCTTATCAC
6661	TTTCCATATG ATCTGTTGTC TGGAGTATAT GCTACATGTT CATTACTGT ACAAAAACCC AAAGGTATAC TAGACAAACAG ACCTCATATA CGATGTACAA GTAAATGACA TGTTTTGGG
6721	AGTCAGCTG ATGATGCAA GCAGTCTCTC TCTGTGTACA GTGCCAAC TATTTAAAAAA TCACGTCGAC TACTACGTT CGTCAGAGAG AGACACATGT CACGGGGTGG ATAAATTTT
6781	TCACGTACAA NCCCAGAACAA CTGTGAAACA CTTAACATAA GAAACAAACG CAGCGTCTGG AGTGCATGTT NGGGTCTTGT GACACTTGT GAATTGTATT CTTTGTGTC GTCGCAGACC
6841	ATTCTTCCA AGGAGAGCAG CTTCTCCAC AGGAACACAG TAACAAAAGA GGTCCGCCGC TAAGAAAGGT TCCCTCGTC GAAAGAGGTG TCCCTGTGTC ATTGTTTCT CCAGGCGGGC
6901	CATCCACACC CAGCCAAGAC ACCTCAGAGG CCATAGGGAC AACCTCCTG CTGGCCAACA GTAGGTGTGG GTCGGTTCTG TGGAGTCTCC GGTATCCCTG TTGGAGGAAC GACCGGTTGT
6961	CCTGCTGGAG CAGGGCACAG GTCCCGACAA CTGATCCTCA GTGGATGGGT CCGCAGTCAA GGACGACCTC GTCCCGTGT CAGGGTCGTT GACTAGGAGT CACCTACCCA GGCAGTCAGTT
7021	AGCCTTAATG GGCTCTCTT TGAAGGGAA AGAAAANNTT CAAGCTTATG ATATCCAACA TCGGAATTAC CCGAGAGAAA ACTTCCCTT TCTTNNAAA GTTCAATAC TATAGGTTGT
7081	TTATTATAGT TGATGAGTTA GTAAATTCCG AAAAAAAAAG ATGATTTAT ATGTATGACA AATAATATCA ACTACTCAAT CATTAAAGGC TTTTTTTTC TACTAAAATA TACATACTGT
7141	TAAAAAAAAT CTTGTAAAG TGCAGCAAGTG CAATAATTAA AAGAGGTCTT ATCTTGCAT ATTTTTTTA GAAACATTTC ACGCGTTCAC GTTATTAAT TTCTCCAGAA TAGAAACGTA
7201	TTATAAAATTA TAAATATTGT ACATGTGTGT AATTTTCAT GTATTCAATT GCAGTCTTG AATATTTAAT ATTATAACA TGTACACACA TTAAAAGTA CATAAGTAAA CGTCAGAAAC
7261	TATTTAAAAA AACTTTACTG TTATGTTGT ATAATAGAAC ATTAATCATT TATTATAACT ATAAAATTTT TTGAAATGAC AATACAAACA TATTATCTG TAATTAGTAA ATAATATTGA
7321	CAGACAAGGT GTAAATAAT TCATAATTCA AACAGCCAGT ATATATGCAT ATATGGGTGT GTCTGTTCCA CATTATTAAAGT TTGTCGGTCA TATATACGTA TATACCCACA
7381	TACATTGCAA AAATCTCTAT CTTGTTCTA TTCACATGCT TAAAGAAGTA AGAAATCTT ATGTAACGTT TTTAGAGATA GAAACAAGAT AAGTGTACGA ATTTCTTCAT TCTTAGAAA
7441	TGTGGATATG TAATTATACA TATAAAAGTAT ATATATATGT ATGATACATG AAATATATTT ACACCTATAC ATTAATATGT ATATTCATA TATATATACA TACTATGTAC TTTATATAAA
7501	AGAAATGTTA ATAATTTAA TGGATATTCT TTGGTGTGAA TAATTGAATA CAACATTTT TCTTACAAG TATTAATTAACCTATAAGA AACCAACACTT ATTAACCTTAT GTGTAAAAAA

**Figure 15 (cont.)**

7561 AAAATGAAAA AAAAAAAA C  
TTTACTTT TTTTTTTT G

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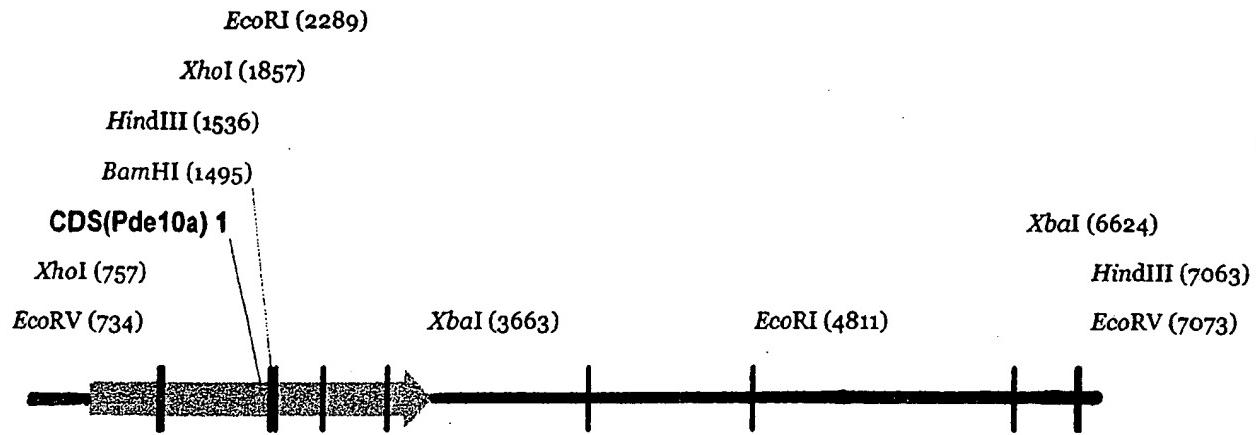


Figure 16

7581 bp

Figure 17

## PDE10A compiled - coding sequence and features

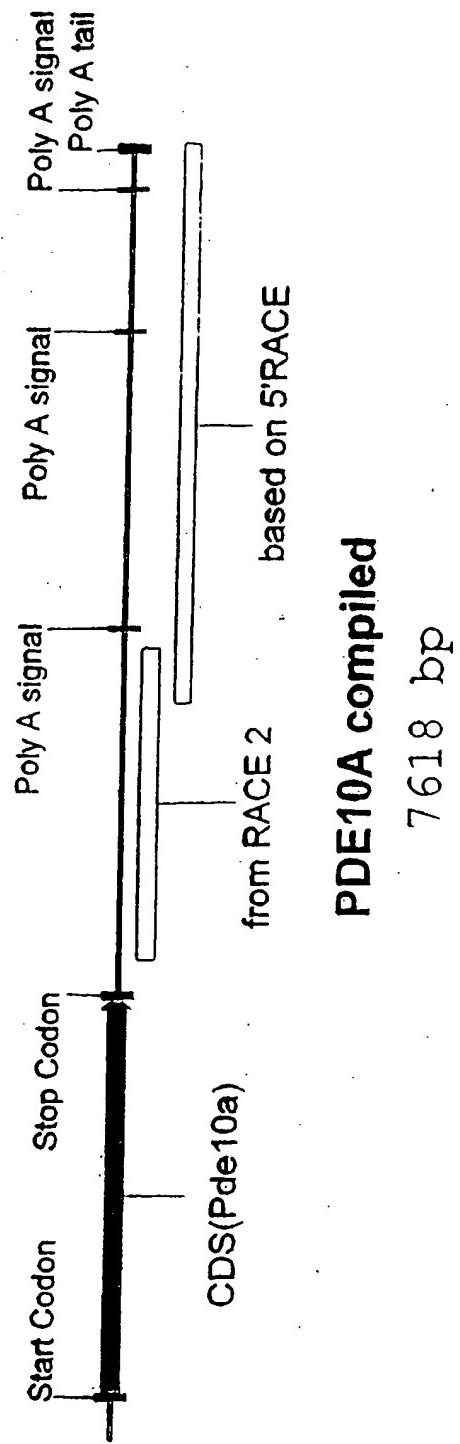
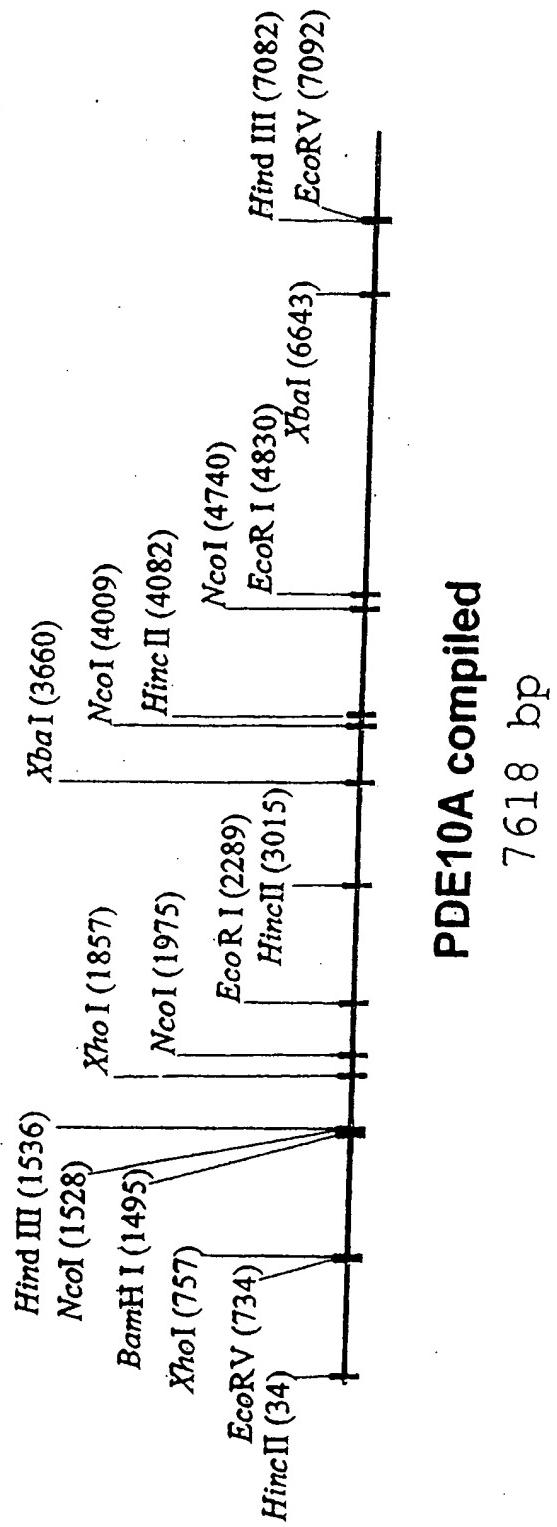


Figure 18

PDE10A compiled - restriction sites



**Figure 19**

1	CGCCCGGGCA GGTCTGTGAGGGCAGTTG GTCAACCTGA CCAGAGAGAG CTGAGCTGGA GCGGGCCCGT CCAGACAACC TCCCCTCAAC CAGTTGGACT GGTCTCTCTC GACTCGACCT
61	AGACCCCCACT GATGGTGTGC TGCCCTTCAG TCCAGGAAGA AAGAAAGGAA GGATTCTGAG TCTGGGGTGA CTACCACACG ACGGAAAGTC AGGTCTTCT TTCTTCCCTT CCTAACAGACTC
121	GATTGGGCA AAGCCACATT CCTGGAGAAG TCTGTATACT GATGCCAAC CCAAGAGCTG CTAAACCCGT TTCGGTGTAA GGACCTCTC AGACATATGA CTACGGTTG GGTTCTCGAC
181	AGCTGCTGAT GAGGCCAGG GAGTAGCCA CGCGCCCTGA GCTGTTGGCT AGCAAGGCCT TCGACGACTA CTCCGGGTCC CTCATCGGGT GCGCGGGACT CGACAACCGA TCGTTCCGGA
241	TCCTGCTCCA TGTGGCATGG AAAAATTATA TGTTTGACG GATGAAAAGG TGAAGGCCTA AGGACGAGGT ACACCGTAC TTTTAATAT ACCAAACTGC CTACTTTCC ACTTCCGGAT
301	TCTTCTCTC CATCCCCAGG TATTAGATGA ATTTGTTTCT GAAAGTGTAA GTGCAGAGAC AGAAAGAGAG GTAGGGGTCC ATAATCTACT TAAACAAAGA CTTTCACAAT CACGTCTCTG
361	TGTGGAAAAG TGGCTGAAGA GGAAAACCAA CAAAGCAAA GATGAACCAT CTCCCAAGGA ACACCTTTTC ACCGACTTCT CCTTTGGTT GTTTCGTTT CTACTGGTA GAGGGTTCTT
421	AGTCAGCAGG TACCAAGATA CGAATATGCA GGGAGTCGTG TACGAGCTGA ACAGCTACAT TCAGTCGTCC ATGGTCCTAT GCTTATACGT CCCTCAGCAC ATGCTCGACT TGTCGATGTA
481	AGAGCAGCGC CTGGACACGG GCAGGGACAA CCACCTGCTC CTCTATGAGC TCAGCAGCAT TCTCGTCGCG GACCTGTGCC CGCCCTGTT GGTGGACGAG GAGATACTCG AGTCGTCGTA
541	CATCAGGATA GCCACAAAAG CCGACGGATT TGCACTGTAC TTCCCTGGAG AGTGCAATAA GTAGTCCTAT CGGTGTTTC GGCTGCCTAA ACGTGACATG AAGGAACCTC TCACGTTATT
601	TAGCCTGTGT GTGTTCATAC CACCCGGGAT GAAGGAAGGC CAACCCCGGC TCATCCCTGC ATCGGACACA CACAAGTATG GTGGGCCCTA CTTCTTCCG GTTGGGGCCG AGTAGGGACG
661	AGGGCCCACATC ACCCAGGGTA CCACCATCTC TGCCTACGTG GCCAAGTCTA GGAAGACGTT TCCCGGGTAG TGGGTCCCCTA GGTGGTAGAG ACGGATGCAC CGGTTCAGAT CCTTCTGCAA
721	GTTGGTAGAG GATATCCTG GGGATGAGCG ATTTCCTCGA GGTACTGGCC TGGAATCAGG CAACCATCTC CTATAGGAAC CCCTACTCGC TAAAGGAGCT CCATGACCGG ACCTTAGTCC
781	AACCCGCATC CAGTCTGTTC TTTGTTGCC CATTGTCACT GCCATGGAG ACTTGATTGG TTGGCGTAG GTCAGACAAAG AAACGAACGG GTAACAGTGA CGGTACCTC TGAACTAACC
841	CATCCTGAA CTGTACAGGC ACTGGGGCAA AGAGGCCTTC TGCCTCAGCC ATCAGGAGGT GTAGGAACCT GACATGTCCG TGACCCCGTT TCTCCGGAAAG ACGGAGTCGG TAGTCCTCCA
901	TGCAACAGCC AATCTTGCTT GGGCTTCCGT AGCAATACAC CAGGTGCAGG TGTGTAGAGG ACGTTGTCGG TTAGAACGAA CCCGAAGGCA TCGTTATGTG GTCCACGTCC ACACATCTCC
961	TCTCGCCAAA CAGACCGAAC TGAATGACTT CCTACTCGAC GTATCAAAGA CATACTTGA AGAGCGGTTT GTCTGGCTTG ACTTACTGAA GGATGAGCTG CATAGTTCT GTATGAAACT
1021	TAACATAGTT GCCATAGACT CTCTACTTGA ACACATCATG ATATATGCAA AAAATCTAGT ATTGTATCAA CGGTATCTGA GAGATGAACT TGTGTAGTAC TATATACGTT TTTTAGATCA
1081	GAACGCCGAC CGCTGCGCGC TCTTCCAGGT GGACCACAAG ACAAGGAGC TGTACTCGGA CTTGGCGCTG GCGACGCGCG AGAAGGTCCA CTCGGTGTTC TTGTTCTCG ACATGAGCCT
1141	CCTGTTGAC ATTGGGGAGG AGAAGGAGGG GAAGGCCATC TTCAAGAAGA CCAAGGAGAT GGACAAACTG TAACCCCTCC TCTTCCCTCC CTTGGGTAG AAGTTCTTCT GTTCCCTCTA
1201	CAGATTTCC ATTGAGAAAG GGATTGCTGG TCAAGTGGCA AGAACAGGCG AAGTCTTGAA GTCTAAAAGG TAACTCTTTC CCTAACGACC AGTTCACCGT TCTTGTCCGC TTCAGAACTT

**Figure 19 (cont.)**

1261	CATTCCCGAT GCCTACCGCGG ACCCTCGCTT TAACAGGGAG GTGGACCTGT ACACAGGCTA GTAAGGGCTA CGGATGCGCC TGGGAGCGAA ATTGTCCCTC CACCTGGACA TGTGTCCGAT
1321	CACCACGGAGG AACATTCTGT GTATGCCCAT AGTGAGCCGA GGCAGCGTGA TTGGCGTGGT GTGGTGCTCC TTGTAAGACA CATACTGGCT CCGTCGCACT AACCGCACCA
1381	GCAGATGGTG AACAAAGATCA GCGGTAGCGC CTTCTCCAAG ACAGACGAGA ACAACTCAA CGTCTACACAC TTGTTCTAGT CGCCATCGCG GAAGAGGTTG TGTCGCTCT TGTTGAAGTT
1441	GATTTTGCT GTCTTCTGCG CACTGGCCTT GCACTGTGCT AACATGTACC ACAGGATCCG CTACAAACGA CAGAACGCG GTGACCGGAA CGTACACGA TTGTACATGG TGTCCTAGGC
1501	CCACTCAGAA TGCATCTACA GGGTTACCAT GGAGAACGTT TCCTACCAC GCATCTGCAC GGTAGTCTT ACGTAGATGT CCCAATGGTA CCTCTTCGAA AGGATGGTGT CGTAGACGTG
1561	CTCCGAGGAG TGGCAAGGCC TCATGCGCTT CAACCTACCA GCACGCATCT GCCGGGACAT GAGGCTCCCTC ACCGTTCCGG AGTACGCGAA GTTGGATGGT CGTGCCTAGA CGGCCCTGTA
1621	CGAGCTATTG CACTTTGACA TTGGTCCTT CGAGAACATG TGGCCTGGGA TCTTGTCTA GCTCGATAAG GTGAAACTGT AACCAAGAAA GCTCTTGAC ACCGGACCT AGAAACAGAT
1681	CATGATCCAT CGGTCTTGTG GGACATCCTG TTTTGAACCT GAAAAATTGT GCCGTTTTAT GTACTAGGTA GCCAGAACAC CCTGTAGGAC AAAACTTGAA CTTTTAACAA CGGCAAAATA
1741	CATGTCTGTG AAGAAGAACT ATCGGGGGT TCCTTACAC AACCTGGAAAGC ATGCAGTCAC GTACAGACAC TTCTTCTTGA TAGCCGCCCCA AGGAATGGTG TTGACCTTCG TACGTCACTG
1801	GGTGGCACAC TGCATGTATG CCATACTTCA AAACAACAAT GGCTCTTC A CAGACCTCGA CCACCGTGTG ACGTACATAC GGTATGAAGT TTTGTTGTTA CCGGAGAAGT GTCTGGAGCT
1861	GCGCAAAGGC CTGCTAAATTG CGTGTCTGTG CCATGACCTG GACCACAGGG GCTTCAGTAA CGCGTTCCG GACGATTAAC GCACAGACAC GGTACTGGAC CTGGTGTCCC CGAAGTCATT
1921	CAGCTACCTG CAGAAGTTCG ACCACCCCCCT GGCGGCCTG TACTCCACCT CCACCATGGA GTCGATGGAC GTCTTCAAGC TGGTGGGGGA CCGCCGCGAC ATGAGGTGGA GGTGGTACCT
1981	GCAACACCCAC TTCTCCCAGA CGGTGTCCAT CCTTCAGCTG GAAGGGCACA ATATCTCTC CGTTGTGGTG AAGAGGGTCT GCCACAGGTAA GGAAGTCGAC CTTCCGTGT TATAGAAGAG
2041	CACCCGTGAGC TCCAGCGAGT ACGAGCAGGT GCTGGAGATC ATCCGAAAG CCATCATCGC GTGGGACTCG AGGTGCGTCA TGTCGTCCA CGACCTCTAG TAGGCCTTTC GGTAGTAGCG
2101	CACCGACCTC GCCCTATACT TTGGGAACAG GAAGCAGTTG GAGGAGATGT ACCAGACAGG GTGGCTGGAG CGGGATATGA AACCTTGTC CTTCGTCAAC CTCCTCTACA TGGTCTGTCC
2161	GTCGCTGAAC CTCCACAACC AGTCCCACCG AGACCGTGTG ATCGGCTTGA TGATGACTGC CAGCGACTTG GAGGTGTGG TCAGGGTAGC TCTGGCACAG TAGCCGAAC ACTACTGACG
2221	CTGTGATCTT TGCTCTGTGA CCAAACATATG GCCAGTTACA AAATTGACAG CGAATGATAT GACACTAGAA ACGAGACACT GGTTTGATAC CGGTCAATGT TTTAAGTGTG CTTACTATA
2281	ATATGCAGAA TTCTGGGCTG AGGGTGTGAA GATGAAGAAG CTGGGCATAC AGCCCATTCC TATACGTCTT AAGACCCGAC TCCCACACTA CTACTTCTTC GACCCGTATG TCGGGTAAGG
2341	TATGATGGAC AGAGACAAGC GAGATGAAGT CCCTCAAGGG CAGCTCGGAT TCTACAATGC ATACTACCTG TCTCTGTGCG CTCTACTTCA GGGAGTTCCC GTGAGCCATA AGATGTTACG
2401	TGTGGCCATT CCCTGCTATA CCACCTTGAC GCAGATCCTC CCACCCACAG AGCCTCTGCT ACACCGGTAA GGGACGATAT GGTGGAACTG CGTCTAGGAG GGTGGGTGTC TCGGAGACGA
2461	GAAGGCCTGC AGGGATAACC TCAATCAGTG GGAGAAGGTA ATTGCAGGGG AAGAGACAGC CTTCCGGACG TCCCTATTGG AGTTAGTCAC CCTCTTCAT TAAGCGCCCC TTCTCTGTGCG

**Figure 19 (cont.)**

2521	AATGTGGATT TCAGGCCAG GCCGGCGCC TAGCAAGAGC ACACCTGAGA AGCTGAACGT TTACACCTAA AGTCCGGTC CGGGCCGCGG ATCGTTCTG TGTTGACTCT TCGACTTGCA
2581	GAAGGTTGAA GACTGATCCT GAAAGTGACGT CCTGATGTCT GCCCAGCAAC CGACTCAACC CTTCCAACCTT CTGACTAGGA CTTCACTGCA GGACTACAGA CGGGTGTG TGCTGAGTTGG
2641	TGCTTCTGTG ACTTCGTTCT TTTGTTTC AAGGGGTGAA AACCCCTGT CAGAAGGTAC ACGAAGACAC TGAAGCAAGA AAAACAAAAG TTCCCCACTT TTGGGGGACA GTCTCCATG
2701	CGTCGCATAT CCATGTGAAG CAGACGACTC CCTGCTTGCC GCACACACCT CGGACAGTGA GCAGCGTATA GGTACACTTC GTCTGCTGAG GGACGAACGG CGTGTGTGGA GCCTGTCACT
2761	GCAACCCAGG CTCTGCCGTG TTCAGACGTC GGCTACTCCG TGGCTCCACC TGACCTCCGA CGTTGGGTCC GAGACGGCAC AAGTCTGCAG CCGATGAGGC ACCGAGGTGG ACTGGAGGCT
2821	ATGCTATTTG CTCCCAGGCC AGCACTGCAC TGTCTGGAGG GGGCAGAGAC CACAGGAGAG TACGATAAAC GAGGGTCCGG TCGTGACGTG ACAGACCTCC CCCGTCCTCG GTGTCCCTC
2881	GTTCTTGCCCT GCATCCTCCC ATGAGGGTGT GGCCAGTCC CTAGTTCTGT GCCATGCTGC CAAGAACGGA CGTAGGAGGG TACTCCCACA CCGGTCAAGG GATCAAGACA CGGTACGACG
2941	TGCTTGGTGG CATTGGTTAG GAATGGGACA CACGCCCTT GTTGTGAAGT TTACATGTGA ACGAACCACC GTAACCAATC CTTACCCCTGT GTGCGGGGAA CAACACTTCA AATGTACACT
3001	CCTCTTATA GGTTAACTGA GTTTGTGGCC TGGGACACAT GTAATGAAGG TCACAGTCCA GGAAGAATAT CCAATTGACT CAAACACCCG ACCCTGTGTA CATTACTTCC AGTGTCAAGGT
3061	CAGGTGACAG AGAAATCCAA ACTGTTGATT ACAGGTGCAC TACAGGTATG CTCTTTCAGT GTCCACTGTC TCTTGTAGTT TGACAACCAA TGTCCACGTG ATGTCACATAC GAGAAAGTCA
3121	CTATCTGGGG GCACATAGGT GAGTCTGCTC CACTCAGAAAG GAAGCATACC TCTSCCCTCA GATAGACCCC CGTGTATCCA CTCAGACGAG GTGAGTCTTC CTTCGTATGG AGASGGGAGT
3181	TCCAGGGGAC ACAGGGTACA TCCCAGGCAT CGGGGAACTG AAGCTCTCAC TTCAAACCAT AGGTCCCTG TGTCCTATGT AGGGTCCGTA GCCCCTTGAC TTCGAGAGTG AAGTTGGTA
3241	GTCAAAGAAT TAAAACACCT CCCCTCCCCC TCACTGTAGC CTTCGGCAAC TGCGCCAATC CAGTTTCTTA ATTTGTGGA GGGGAGGGGG AGTGACATCG GAAGCCGTTG ACGCGGTTAG
3301	CCTTTATACA AAGAAAATAT AAGTAAGGCA TATAAATTTC CTCCAGCAAG CAAATCTTGT GGAAAATATGT TTCTTTATA TTCATTCCGT ATATTTAAAG GAGGTGTTTC GTTTAGAACAA
3361	GGGTAAAAAA AAAAAATGTG AATTTAACCA ACCTCTATAT TTTCACTGTA TGTTATGGCA CCCATTTTTT TTTTTACAC TTAAAATTGT TGGAGATATA AAAGTGACAT ACAATACCGT
3421	GAATTTAGT CACGTCCAAA ACAAAAGATT ATTCCAGAAAG ATACCTCATC CTATGCCTGA CTTAAATCA GTGCAGGTTT TGTTTCTAA TAAGGTCTTC TATGGAGTAG GATA CGGACT
3481	AAGCTCCACA GCATGGCGTC CGTCTCCAG GGTCTGATC CGTCTCCTCA CGGTGCAATC TTCGAGGTGT CGTACCGCAG GCAGAGGGTC CCAAGACTAG GCAGAGGAGT GCCACGTTAG
3541	AGGCAGGACA GGAGGAGGTG CAGGGCTACC ACATTGACCC AGATGGTATC TCCTCTCAC TCCGTCTGT CCTCCTCCAC GTCCCCATGG TGTAACGGGG TCTACCATAG AGGAGAGTGG
3601	ATTCAAGACAT CCATAAGGAA TGCCAAATGC TGTATTGAAT AGTTCTCCTG TGTGACTTTC TAAGTCTGTA GGTATTCCCT ACGGTTTACG ACATAACTTA TCAAGAGGAC ACACTGAAAG
3661	TAGAGAAGCC AGGACACCCC TGAGCCTTTC CTGGGAACTC CTAAGGAAGT CACAGGTTCA ATCTCTCGG TCCTGTGGGG ACTCGGAAAG GACCCCTGAG GATTCTTCA GTGTCCAAGT
3721	CACCGTGGGG ATTTCAAGGA TAGCATGGAG ACCAGAGAAT CCCGGTTCGG TTGTTCTCAC GTGGCACCCCC TAAAGTCCT ATCGTACCTC TGGTCTCTTA GGGCCAAGCC ACAAGAGTG

**Figure 19 (cont.)**

3781	TCGGTGAGCC TTGAGAAGGA AGAGACTGAC CAGAAACACT CACTCAGCAC TCTGGCAGGA AGCCACTCGG AACTCTTCTC TCTCTGACTG GTCTTGTA GTGAGTCGTG AGACCGTCCT
3841	GCAGGAGAAG ATACTTTAACG ATGAATCTTT GGGATAGATT TTGATACACC CAATACCATA CGTCCTCTTC TATGAAATTC TACTTAGAAA CCCTATCTAA AACTATGTGG GTTATGGTAT
3901	CACACAGGAG CTTGGCATTT GCAAAGTCTA TTCAGTTCC TTCCACACTC TGACCCACGG GTGTGTCCTC GAACCGTAAA CGTTTCAGAT AAGTCAAAGG AAGGTGTGAG ACTGGGTGCC
3961	TTGTAGCGGA GTGGGCTGAA CACTGTAACA CTGTACATGC GATTCCCCA TGGGCTTCTA AACATCGCCT CACCCGACTT GTGACATTGT GACATGTACG CTAAGGGGT ACCCGAAGAT
4021	AAATGTCACC ATCTCCTCCC CTGCTGTGTC CTACTCCATT TACTGGTTAC AAGGTGATGT TTTACAGTGG TAGAGGAGGG GACGACACAG GATGAGGTAATGACCAATG TTCCACTACA
4081	CAACAAGAGA AGCTATCACA ACACCAAGGGC TGTGCACACAG TGACACACACA TGTATGCACA GTTGTTCTCT TCGATAGTGT TGTGGTCCCG ACACGTGTGC ACGTGTGTGT ACATACGTGT
4141	AGCACACAGA TGTATGTACA GCACACACAC ACACACACAC CCCAAAAGGA GAGAAAAGGA TCGTGTGTCT ACATACATGT CGTGTGTGT TGTGTGTGT GGGTTTCCT CTCTTTCTCCT
4201	AGAAAACATT TATAAAAAGC GACAGCTACC CCCATATTCA AAAATAGTTC TTTTCCCTGT TCTTTGTAA ATATTTTCG CTGTCGATGG GGGTATAAGT TTTTATCAAG AAAAGGGACA
4261	AGGGAAACAG GTAGCTCTCC ATAAGGAAAT TATCATGAGT GTGTTCTCCC ATCAGTCAC TCCCTTGTGTC CATCGAGAGG TATTCTTTA ATAGTACTCA CACAAGAGGG TAGTCACGTG
4321	TTCTCCCAGG GGTGCTCACT GAAGCTGGTC CACGTCTATA AACAGGTGAC ACTGGCTGCA AAGAGGGTCC CCACGAGTGA CTTCGACCAAG GTGCAGATAT TTGTCCTACTG TGACCGACGT
4381	GCAAAAAGCC ATTGATCCA CACAAATTGA TCTTCTATCA TCTTGAATC TGAATTGCAG CGTTTTTCGG TAAGCTAGGT GTGTTAACT AGAAGATAGT AGAACCTTAG ACTAACGTC
4441	GGAGGAGCAG CATGTAAGAC GACCGTTAA TTCAGGCATT CCGAAGGCAT GAGGCATAGG CCTCTCGTC GTACATTCTG CTGGCAAATT AAGTCCGTAA GGCTCCGTAA CTCGCGTACC
4501	ATTCTGTAC CAAGCGTATA AAAGGACCC GGCATTGGGA AACCTATGAC GGACTGTTT TAAGACAGTG GTTCGATAT TTTCCTGGGA CCGTAACCT TTGGATACTG CCTGACAAAA
4561	TGCTGTAGAA GTAGGGATTT TACAGAAGTC TCCTTGGATT TGCCCTGCCT GGGGCAGTTT ACGACATCTT CATCCCTAAA ATGTCCTCAG AGGAACCTAA ACGGGACCGGA CCCCGTCAAA
4621	TGCAGAGGAA CCTGCCAGAG ATTATTGGC TGGTCAGTCT CTTGTGAAAT AGTATCATGT ACGTCTCCTT GGACGGTCTC TAAATAACCG ACCAGTCAGA GAACACTTTA TCATAGTACA
4681	GAGAAACAGT TTGTAGAAAA AAACATATACC TGGGAAGACC TTTGCAACAT TGTTCCTTCC CTCTTGTCA AACATCTTT TTGATATGG ACCCTCTGG AAACGTTGTA ACAAGGAAGG
4741	ATGGGCCAAG ACTCAGTTAG GAGGCATAAA TCTGCCCGGA ATAAACTAGG CCAGGATACA TACCCGGTTC TGAGTCAAATC CTCCGTATTT AGACGGGCT TATTGATCC GGTCTATGT
4801	GCCATGTTA GTTAATAATT TGGTTTAGA ATTACACACAG GCAGGATTGG TTTTTTGTG CGGTACAAAT CAATTATTA ACCAAAATCT TAAGTGTGTG CGTCCTAAC AAAAAAACAC
4861	TCTTGGCAAG TGGAGCATAT TTAACATACA GGCATGGGAA TCCTGCCTCT TAGCTTTCC AGAACCGTTC ACCTCGTATA AATTGTATGT CCGTACCCCT AGGACGGAGA ATCGAAAAGG
4921	CACCCCTTG TCTCACCAAG TTTTTCTCT CCAAAGGTTT CCAGGAATTTC CTCATTAATG GTGGGAGAAC AGAGTGGTTC AAAAAAGAGA GGTTTCCAAA GGTCTTAAA GAGTAATTAC
4981	GCTGATGCAA ACTTAGTGAA TAATAATGAA TATAAACAT GCTCACCTCA CCAAAATTAT CGACTACGTT TGAATCACTT ATTATTACTT ATATTGTTA CGAGTGGAGT GGTTTAATA

**Figure 19 (cont.)**

5041	ATTATTTGCA GTCATTTGTG ATAACACAAA TTTTATCGCA ATGGTTATTA TTTAATTGT TAATAAACGT CAGTAAACAC TATTGTGTT AAAATAGCGT TACCAATAAT AAATTAACAA
5101	GGCCACACAC TGTGGTTATC TTTTGTGTT GTTGTTCG AGAAAATGTT CTTGGATATG CCGGTGTGTG ACACCAATAG AAAACAACAC CAACAAAGAC TCTTTACAA GAACCTATAC
5161	TAAGTGCCAA TACCAAGTGTG AAGTATTGAT CCCGGGCAGC AAAATACAGC CTAAGGTTG ATTACGGTT ATGGTCACAC TTCTAACTA GGGCCCGTCG TTTTATGTG GATTCCAAAC
5221	TAAACATCAA TTCTATCTCA GTTCATCAGA GGGCCTGAGA AGCTGCGGGG CAGTGTAAAG ATTGTAGTT AAGATAGAGT CAAGTAGTCT CCCGGACTCT TCGACGCC GTCACATTTC
5281	TAAAGTATGC TGGGCTGGTG GTGGTCAGCC TCCCCTTGCC AAGAAGAGAG CAATTGAATC ATTTCATACG ACCCGACCAC CACCAGTCGG AGGGGAACGG TTCTCTCTC GTTAACCTAG
5341	CTGTCCCCAG CTCCCTCCAC GCCTGAAGAG TGACCAGTGC TGGCCGACG GATCGCTGAG GACAGGGGTC GAGGGAGGTG CGGACTTCTC ACTGGTCACG ACCGGGCTGC CTAGCGACTC
5401	ATATTCTCCC ATAATGGCAA AAAATAGGC AGTTTGATGT GACCTGTTA GTGTGGCTCT TATAAGAGGG TATTACCGTT TTTTATCCG TCAAACATACA CTGGACAAAT CACACCGAGA
5461	CCTCTTTGA GCATGTGTTA GCATTTTTAT TTTTAACTCA TCCAGTGAAC TCTGCTCTTC GGAGAAAAT CGTACACAAT CGTAAAAATA AAATATGAGT AGGTCACTTG AGACGAGAAG
5521	CAAGTGTGTT CATGTATGTG CTAGATATAT TAGCACAGCC TGCCCTCTGC TGCACAAACGC GTTCACACAA GTACATACAC GATCTATATA ATCGTGTGG ACAGAAGACG ACGTGTTGCG
5581	CTTAGAGACC CGGCCTTCA ATGAGCTTAG CTTGTGCTCT GTTTCTGCTC TCTTAGGTCT GAATCTCTGG GCCGGAAAGT TACTCGAAC TAAACACGAGA CAAAGACGAG AGAATCCAGA
5641	AAACTATGGT GTCAAGTTTA ATAGAACAAA AGTATGCATC TTGAGCTGGC TTGAGCCTTT TTGATACCA CAGTAAAAT TATCTGTGTT TCATACGTAG AACGGAACCG AACTCGGAAA
5701	TCGTTTCAA TGCTGACTTC TCCCCTTCT CTCCTGTGCT CACCTTACCT TTCCAGAGTG AGCAAAAGTT ACGACTGAAG AGGGGAAAGA GAGGACACGA GTGGAATGGA AAGGTCTCAC
5761	TAAGGGACAA CTTTTAAGGA GGCAGTGTCCC TGGTAGGGGC ATCCCTGTTC ACCAGGTGCC ATTCCCTGTT GAAAATCCT CCCCACAGGG ACCATCCCCG TAGGGACAAG TGGTCCACGG
5821	TGTCACTACC CCACCTGACT GACATCTACC CTGGTACTA TGGGTTCCCTC TTGTTTGTAG ACAGTAGTGG GGTGAACCTGA CTGTAGATGG GACCACTGAT ACCCAAGGAG AACAAACATC
5881	GGAACGGTGG CTCCAGGTGG AGGCATCAAT CTGTTGGTT CTGGTCCCG GCTGCCTTG CCTGCCACC GAGGTCCACC TCCGTAGTTA GACAACCCAA GACCAAGGGC CGACGGAAAC
5941	GTTTGAAAG TCTCTCTCT GTATATTCCCT ACCCTGCATT TGCTTTGTGT GGTGCTGATG CAAAACTTTC AGAGAACAGA CATATAAGGA TGGGACGTAA ACGAACACACA CCACGACTAC
6001	CTGTGGCAGT AGGATCTTGG ATGACTCTCC ATCAGTCACA GACTCCCCCT GTGCAAAGT GACACCGTCA TCCTAGAAC TACTGAGAGG TAGTCAGTGT CTGAGGGGG CAACGTTCA
6061	GTCAGGCTGA CTCGACAGTC ACCGTAAAAT CTGAGTCAGT CACACACAGG CTGTCAAGCCA CAGTCCGACT GAGCTGTCA GGCATTTA GACTCACTCA GTGTGTGTCC GACAGTCGGT
6121	CGGCTTCCAC TTGCATGGCT ATTCTATTTT CACACGTGAG TTTCTGTG TGGCTGGCTG GCCGAAGGGT AACGTACCGA TAAGATAAAA GTGTGCACTC AAAGACAACG ACCGACCGAC
6181	ACTGGCATTAA TCTATGCTAA GTGAAATCA GGAGTGTGCC CAGCAGAGCC CATCATTCTC TGACCGTAAT AGATACGATT CAACTTTAGT CCTCACACGG GTCGTCTCGG GTAGTAAGAG
6241	ACTGTCTTG AAACAAAGCT GTACGGTTG ATCGATGAAC GTATTTAAAG CATTTCATGC TGACAGAAAC TTTGTTCGA CATGCCAAC TAGCTACTTG CATAAATTTC GTAAAGTACG

**Figure 19 (cont.)**

6301	AATGACAAAG TGCTCAGTAG TGGAAGGCAG GCTGTGACCA GTCTGCCTGC TCCTTACTAT TTACTGTTTC ACGAGTCATC ACCTTCCGTC CGACACTGGT CAGACGGACG AGGAATGATA
6361	AATTGTGAGG ATTTGTTACT GGAACAGTAC ATGGAGGCCT GACCTTGTGG GGGCACAGGG TTAACACTCC TAAACAATGA CCTTGTCATG TACCTCCGGA CTGGAACACC CCCGTGTCCC
6421	TGGAACCTTA GCTGAATATA GTGTGTGT CAAGAGGAAG TCAGGGTACT AGCTCAGTGC ACCTTCCAAT CGACTTATAT CACACACAGA GTTCTCCTTC AGTCCCATGA TCGAGTCACG
6481	TCAATCTCCA GGTACTATAT ATACATTGTC CGTTTTATC TCTAATGTGA AATAAATCCC AGTAGAGGT CCATGATATA TATGTAACG GGAAAATAG AGATACACT TTATTTAGGG
6541	CAAACACTTG TTTATCGTGT AGCGTACCTA AAAGACTATT CTATTATGGG TGCCCCACT GTTTGTGAAC AAATAGCACA TCGCATGGAT TTTCTGATAA GATAATAACCC ACAGGGGTGA
6601	TTCTTGGTTT GGTCACCCCCG ATCCCCCGGT CTTCTGCTGT ATCTAGAACAA GTGACTATAA AAGAACAAA CCAGTGGGGC TAGGGGCCA GAAGACGACA TAGATCTTGT CACTGATATT
6661	ATGATGTATG GGAATAGTGT TTCCATATGA TCTGTTGTCT GGAGTATATG CTACATGTT TACTACATAC CCTTATCACA AAGGTATACT AGACAACAGA CCTCATATAC GATGTACAAG
6721	ATTACTGTA CAAAAACCCA GTGCAGCTGA TGATGCAAAG CAGTCTCTCT CTGTGTACAG TAAATGACAT GTTTTGGGT CACGTCGACT ACTACGTTTC GTCAGAGAGA GACACATGTC
6781	TGCCCCACCT ATTTAAAAAT CACGTACAAN CCCAGAACAC TGAAACAC TTAACATAAG ACGGGGTGGG TAAATTTTA GTGCATGTTN GGGTCTTGTG ACACTTTGTG AATTGTATTG
6841	AAACAAACGC AGCGTCTGGA TTCTTCCAA GGAGAGCAGC TTTCTCCACA GGAACACAGT TTTGTGCG TCGCAGACCT AAGAAAGGT CCTCTCGTGC AAAGAGGTGT CCTGTGTCA
6901	AAACAAAGAG GTCCGCCGCC ATCCACACCC AGCCAAGACA CCTCAGAGGC CATAGGGACA TTGTTTCTC CAGGGCGCGG TAGGTGTGGG TCGGTTCTGT GGAGTCTCCG GTATCCCTGT
6961	ACCTCCTTGC TGGCCAAACAC CTGCTGGAGC AGGGCACAGG TCCCAGCAAC TGATCCTCAG TGGAGGAACG ACCGGTTGTG GACGACCTCG TCCCCTGTC AGGGTCGTTG ACTAGGAGTC
7021	TGGATGGTC CGCAGTCAAA GCCTTAATGG GCTCTCTTT GAAGGGGAAA GAAANNTTC ACCTACCCAG GCGTCAGTTT CGGAATTACC CGAGAGAAAA CTTCCCTTT CTTNNAAAG
7081	AAGCTTATGA TATCCAACAT TATTATAGTT GATGAGTTAG TAAATTCCGA AAAAAAAAGA TTCAATACT ATAGGTGTA ATAATATCAA CTACTCAATC ATTTAAGGCT TTTTTTTCT
7141	TGATTTATA TGATGACAT AAAAAAAATC TTTGAAAGT GCGCAAGTGC AATAATTAA ACTAAAATAT ACATACTGTA TTTTTTTAG AACATTCA CGCGTTCACG TTATTAATT
7201	AGAGGTCTTA TCTTGCATT TATAAATTAT AAATATTGTA CATGTGTGTA ATTTTCATG TCTCCAGAAT AGAAACGTAATATTAATA TTTATAACAT GTACACACAT TAAAAGTAC
7261	TATTCTTTG CAGTCTTGT ATTAAAAAA ACTTTACTGT TATGTTGTGTA TAATAGAAC ATAAGTAAAC GTCAGAAACA TAAATTTTT TGAAATGACA ATACAAACAT ATTATCTTGT
7321	TTAATCATT ATTATAACTC AGACAAGGTG TAAATAAATT CATAATTCAA ACAGCCAGTA AATTAGTAA TAATATTGAG TCTGTTCCAC ATTTATTAA GTATTAAGTT TGTCGGTCAT
7381	TATATGCATA TATGGGTGTT ACATTGCAAA AATCTCTATC TTTGTTCTAT TCACATGCTT ATATACGTAT ATACCCACAA TGAAACGTTT TTAGAGATAG AAACAAGATA AGTGTACGAA
7441	AAAGAAGTAA GAAATCTTT GTGGATATGT AATTATACAT ATAAAGTATA TATATATGTA TTTCTTCATT CTTAGAAAAA CACCTATACA TTAATATGTA TATTTCATAT ATATATACAT
7501	TGATACATGA AATATATTAA GAAATGTTCA TAATTTAAT GGATATTCTT TGGTGTGAAT ACTATGTACT TTATATAAAT CTTACAAGT ATTAATTA CCTATAAGAA ACCACACTTA

**Figure 19 (cont.)**

7561 AATTGAATAC AACATTTTA AAATGAAAAA AAAAAAAA AAAAAAAA AAAAAAAA  
TTAACCTTATG TTGTAAAAAT TTTACTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTT

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